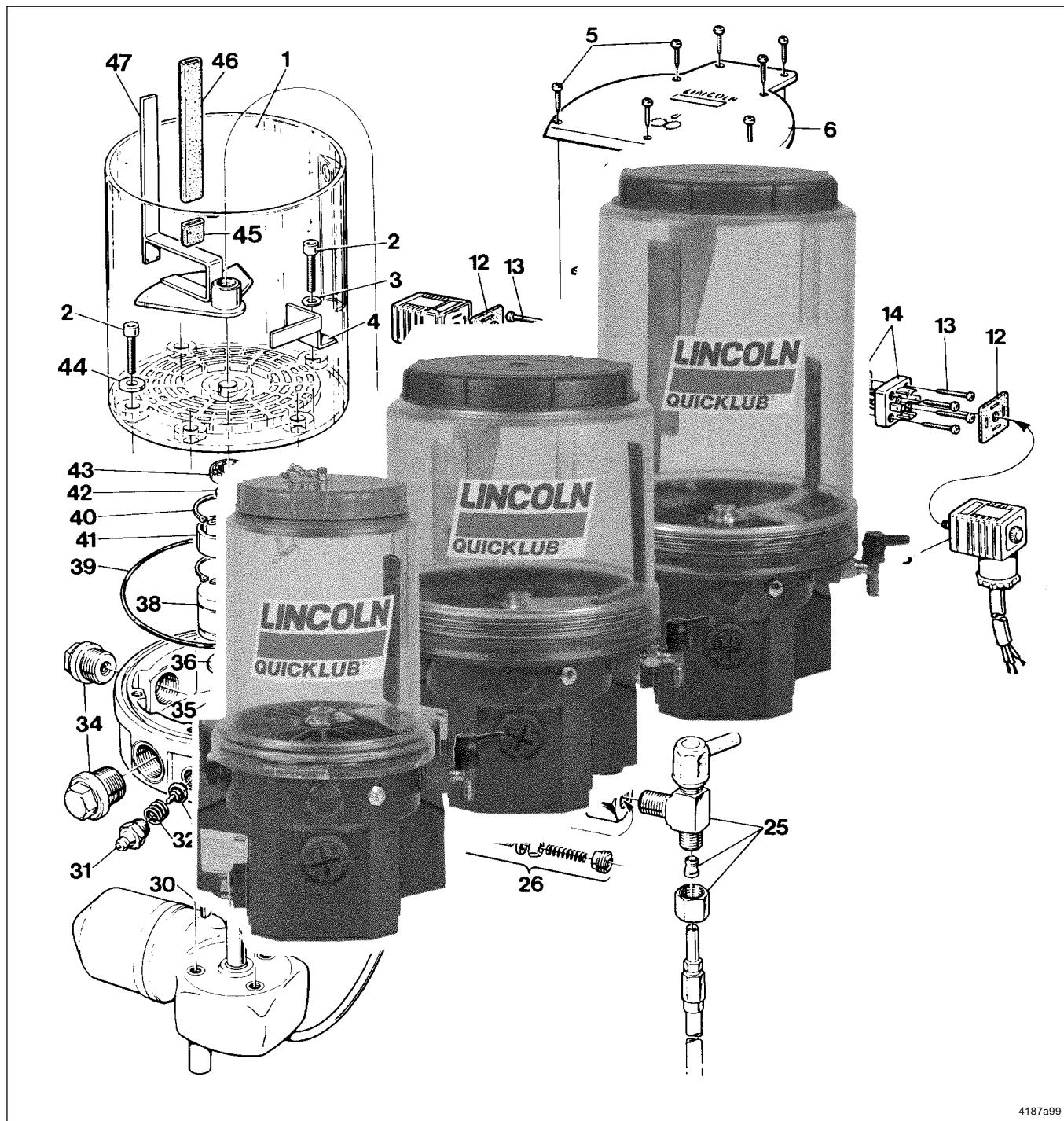


## **Components Parts of Central lubrication pump 103 and 203**



## Table of Contents

	Page	Page
<b>Electric central lubrication pump</b>		
<b>model 203 : 2-l, 4-l and 8-l</b> .....	<b>3</b>	
<b>Component parts of QUICKLUB pumps model 103</b> .....	<b>4</b>	
2-l reservoir without control p.c.b .....	4	4 l reservoir, filling from top, without control p.c.b.
2-l reservoir with integrated control p.c.b.		type of connection 1A1.10 .....
version E1 and/or E2 or BS .....	6	34
2-l reservoir with integrated control p.c.b., ADR .....	8	4 l reservoir, filling from top, without control p.c.b.
2-l reservoir with integrated control p.c.b., E4,		type of connection 2A1.10 with low-level control .....
monitored .....	10	36
2-l reservoir with integrated control p.c.b.		4-l reservoir, filling from top, with integrated
and low-level control - Version E 1 and/or E 2 .....	12	control p.c.b.s of the versions F, F ADR, V00 - V03, V10 - V 13
5-l reservoir without control p.c.b .....	14	and H, type of connection 1A1.10 and/or 2A1.10 .....
5-l reservoir with integrated control p.c.b.		38
version E1 and/or E2 .....	16	4-l reservoir, filling from top, with integrated
<b>Component parts of QUICKLUB pumps model 103</b> .....	<b>18</b>	control p.c.b.s of the versions F, F ADR, V00 - V03, V10 - V 13
2-l reservoir, standard, without control p.c.b.,		and H, type of connection 1A1.10 and/or 2A1.10,
type of connection 1A1.10 .....	20	with low-level control for grease .....
2-l reservoir, standard, without control p.c.b.,		40
type of connection 2A1.10, with low-level control,		4-l reservoir, filling from top, with integrated
for grease .....	22	control p.c.b.s of the versions F, V00 - V03, V10 - V 13
2-l reservoir, standard, with integrated printed circuit		and H, type of connection 1A1.10 and/or 2A1.10 .....
boards of the versions F, F ADR, V00 - V03, V10 - V 13 and H,		44
type of connection 1A1.10 and/or 2A1.10 .....	24	8 l reservoir, filling from top, without control p.c.b.
2-l reservoir, standard, with integrated printed circuit		type of connection 1A1.10 .....
boards of the versions F, F ADR, V00 - V03, V10 - V 13 and H,		46
type of connection 1A1.10 and/or 2A1.10, with low-level control, for		8 l reservoir, filling from top, with integrated
grease .....	26	control p.c.b.s of the versions F, V00 - V03, V10 - V 13
2-l reservoir, filling from top, with integrated		and H, type of connection 1A1.10 and/or 2A1.10 .....
control p.c.b.s of the versions F, F ADR, V00 - V03, V10 - V 13		48
and H, type of connection 1A1.10 and/or 2A1.10 .....	28	8 l reservoir, filling from top, with integrated
2-l reservoir, filling from top, with integrated		control p.c.b.s of the versions F, V00 - V03, V10 - V 13
control p.c.b.s of the versions F, F ADR, V00 - V03, V10 - V 13		and H, type of connection 1A1.10 and/or 2A1.10 .....
and H, type of connection 1A1.10 and/or 2A1.10,		50
with low-level control, for grease .....	30	8 l reservoir, filling from top, with integrated
2-l reservoir, filling from top, with integrated		control p.c.b.s of the versions F, V00 - V03, V10 - V 13
control p.c.b.s of the versions F, F ADR, V00 - V03, V10 - V 13		and H, type of connection 1A1.10 and/or 2A1.10 .....
and H, type of connection 1A1.10 and/or 2A1.10,		52
with low-level control, for oil .....	32	Connecting parts 1A1.10 / 2A1.10 of the pumps 203 IN
2-l flat-type reservoir with integrated printed circuit		(for industrial applications) .....
boards of the versions F, F ADR, V00 - V03, V10 - V 13 and H,		54
type of connection 1A1.10 and/or 2A1.10 .....	34	Connecting parts 2A4.12 / 2A4.13 of the pumps 203
		for micropocessor control .....

Technical Description QUICKLUB Pump 203  
 Technical Description for " Electronic control units" of pump 203:  
 Control p.c.b. 236-13856-1 - Model F  
 Control p.c.b. 236-13862-1 - Model V10-V13  
 Control p.c.b. 236-13857-1 - Model H  
 Control p.c.b. 236-13870-1 - Model M 00 - M 15  
 Control p.c.b. 236-13870-1 - Model M 16 - M 23  
 Timer 236-13860-2 - Model PSG 02  
 Installation instructions

## Identification Code - Pump Models 203

### Examples of model designations

P203-	2	X	N	-	1	K6-	AC-	1A	1.	01-	V10
P203-	4	X	L	-	1	K7-	24-	2A	1.	10-	V12
P203-	2	X	N	-	1	K6-	AC-	1A	1.	01	
P203-	2	X	N	-	1	K6-	24-	2A	1.	10-	V10-ADR
P203-	2	y	N	BO-	2	K5-	24-	1A	1.	01	
P203-	4	X	N	BO-	1	K6-	24-	2A	4.	12-	M00

**Basicpump model for grease or oil**  
with 1-3 outlets and 12 VDC or 24 VDC motor

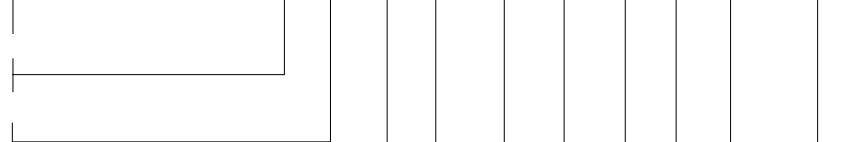


**Reservoir design**

2 = 2 l transparent plastic reservoir  
4 = 4 l transparent plastic reservoir  
8 = 8 l transparent plastic reservoir



X = Reservoir for grease  
Y = Reservoir for oil



N = Standard design

L = Low - level control



without designation = Standard reservoir (2 Litre)

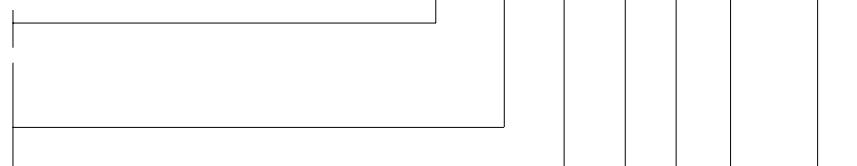
BO = Filling from top

FL = Flat-type reservoir (2 Litre)



### Pump elements

1-3 = Number of the use elements



K 5 = Piston diameter = 5 mm

K 6 = Piston diameter = 6 mm

K 7 = Piston diameter = 7 mm

KR = Pump element adjustable, piston- Ø = 7 mm

C7 = Piston diameter = 7 mm \*\*\*



### Operating voltage

12 V DC or 24 VDC motor

AC = 94 - 265 VAC (47 -63) with 24 VDC motor



### Number of the possible connections

1A = 1 connection, supply voltage

2A = 2 connections, supply voltage +

remote control for additional lubrication,

for low - level control\*\*\*\*, piston detector (microprocessor)



### Type of connection

1 = Cube type plug acc. to DIN 43650, type of connection A

4 = AMP - flanged plug (microprocessor)

8 = PG - cable gland

9 = AMP- plug, wire to wire



### Connection outside the pump

00 = without socket-outlet, without cable

01 = with socket-outlet, without cable

10 = with 10 m cable

11 = with 10 m ADR cable

12 = with 10 m cable, 4 - wire (microprocessor M00 - M07)

13 = with 10 m cable, 5 - wire (microprocessor M08 - M23)



### Control p. c. b. 12V / 24 V

F - with fixed pause time and variable adjustable operating time

F ADR - with fixed pause time and variable adjustable operating time\*\*

V10 -V13 -with adjustable pause and operating time (V20 - V23 for USA)

V10 -V13 - ADR with adjustable pause and operating time \*\*

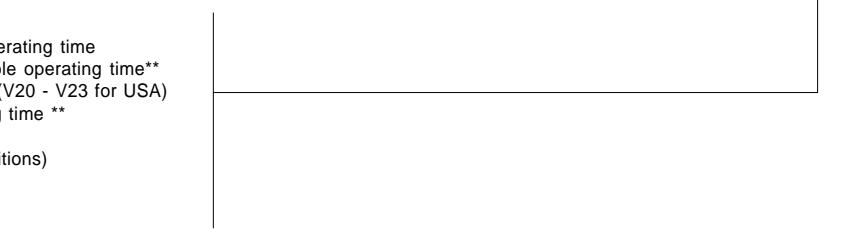
M 00 ...M 23\* - with microprocessor control (various

adjustments - see combinations of the jumper - positions)

H - for trailer or semitrailers

H - ADR for trailers and semitrailors\*\*

No designation: Pump without control p. c. b.



\* Not in conjunction with Hirschmann plugs (type of connection 1)

\*\* for transport of hazard materials

\*\*\* C7 Designation of pump elements (chisel)for supplying of the chisel paste. C5 or C6 on request

\*\*\*\* Low-Level control for oil; connection of low-level control won't be considered

Note: Any pumps combinations other the above standard pumps can be composed and ordered in accordance with the valid model identification code.

## Electric Central Lubrication Pump MODEL 203 : 2-l, 4-l and 8-l



1173a95

The following parts belong to the scope of delivery of the pump 203:

- **Pump bottom** with 12 or 24 VDC motor
- **Reservoir** (2-l, 4-l or 8-l) with grease filling: 0.75kg (for 2-l reservoirs), 1.5 kg (for 4-l and 8-l reservoirs)
- **Pump element** (s) : 1 to 3 pump elements can be used
- **Control printed circuit board** (p.c.b.) for 12/24 VDC

The following models are available:

for grease or oil supply with fixed lubricant output  
 Piston Ø 5 mm; 2 cm<sup>3</sup>/min  
 Piston Ø 6 mm; 2,8 cm<sup>3</sup>/min  
 Piston Ø 7 mm; 4 cm<sup>3</sup>/min  
 for grease or oil supply with adjustable lubricant output

Piston Ø 7 mm; 0,04 - 0,18 cm<sup>3</sup>/Hub  
 for supplying of chisel paste (C7)

Piston Ø 7 mm; 4 cm<sup>3</sup>/min

- **Control printed circuit board** (p.c.b.) for 12/24 VDC

The following models are available:

F, F-ADR, V 10 - V13, H, M 00 - M 23  
 Pump without control p.c.b.

- **Electric connections** : see Identification Code  
*Without control p.c.b., without low-level control*  
 1 pc. square-type plug (black) with 10 m cable,  
 type of connection 1A1.10 (previously CS..E1) or  
 1 pc. square-type plug (black) without cable,  
 type of connection : 1A1.10 (previously IN..E1)  
*Without control p.c.b., with low.level control*  
 1 pc. square-type plug (black) with 10 m cable,

type of connection: 1A1.10 (previously CS..E1)  
 1 pc. square-type plug (grey) with 10 m cable,  
 type of connection: 2A1.10 (previously CS..E2) or  
 2 pcs. Hirschmann plugs (black) without cable,  
 type of connection: 2A1.01 (previously IN..E1)  
 With models F, F-ARD, V10-V13 and H control p.c.b. with/  
 without low-level control

1 pc. square-type plug (black) with 10 m cable,  
 type of connection: 1A1.10 (previously CS..E1)  
 1 pc. square-type plug (grey) with 10 m cable,  
 type of connection: 2A1.10 (previously CS..E2) or  
 1 / 2 pcs. Hirschmann plugs (black) without cable,  
 type of connection : 1A1.01/2A1.01 (previously IN...E1/E2)  
 Models M 00 to M 07 control p.c.b. with/without low-level  
 Control

1 pc. AMP plug with 10 m cable, 4-wire  
 1 pc. outlet socket for 1 or 2 piston detectors,  
 type of connection: 2A4.12  
 Models M 08 to M 23 control p.c.b. with/without control  
 p.c.b.

1 pc. AMP plug with 10 m cable, 5-wire  
 1 p.c. outlet-socket for 1 or 2 piston detectors,  
 type of connection: 2A4.13

### - **Accessories:**

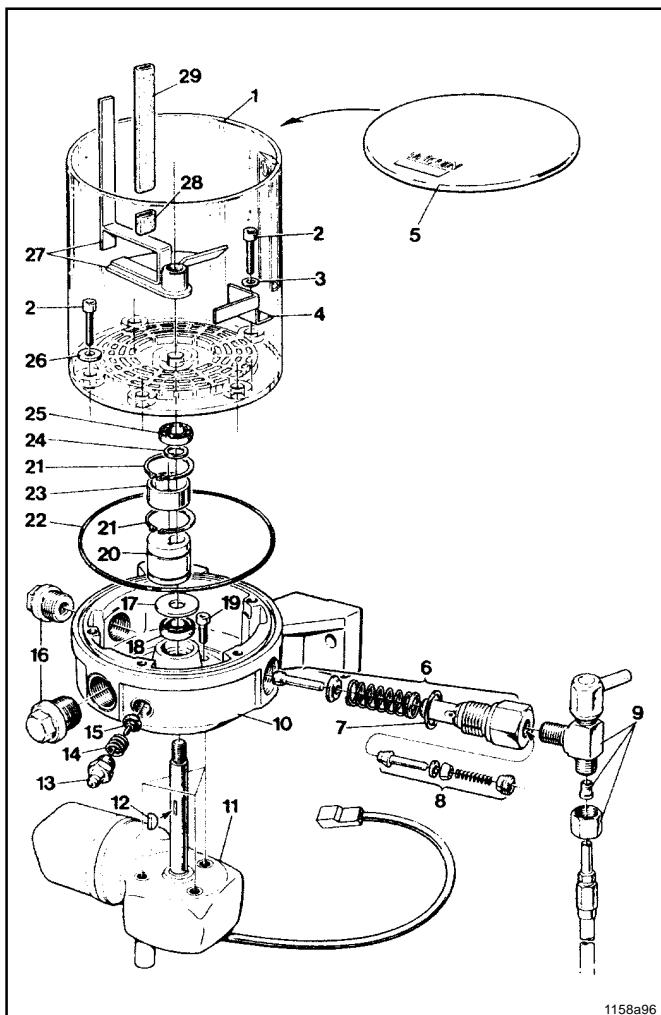
Safety valve - must be ordered separately (see under "Safety valves" for the different models)  
 Fixing screws with accessories, drilling template and operating instructions  
 Low-level control, if any. The parts are integrated in the pump bottom and in the reservoir.

\* not in the case of model H control p.c.b.

Page 4 of 60

## Components Parts of QUICKLUB Pumps Model 103

### 2-I Reservoir Without Control Unit



Item	Designation	Qty.	Part no.
1	Kit reservoir 2XNKF including items 2, 3, 25, 26	1	500-36729-1
2	Hex. socket head screw M 6 x 25 C	5	201-13668-1
3	Tooth lock washer J 6,4 Z	1	210-12161-3
4	Fixed paddle	1	400-22956-1
5	Cover	1	319-19134-1
6	Pump element assy. with piston Ø 6 mm,	1	600-26876-2
7	Sealing ring ø 22,2 x 27 x 1,5	1	306-17813-1
8	Check valve Ø 5 mm, assy.	1	504-36071-8
	Check valve Ø 6 mm, assy.	1	504-36071-4
	Check valve Ø 7 mm, assy.	1	504-36071-9
9	Pressure relief valve SVTE - 350 - R1/4 A - D 6, old type	1	624-27158-1
	SVTE - 350 - R1/4 A - D 6, new type	1	624-28894-1
10	Housing	1	313-19189-1
11	Rep. kit: 12 V* motor including items 2,3,18,26,27, 24 V motor*	1	504-36730-6
	including items 2,3,18,26,27, Rep. kit: 12 V motor**	1	504-36829-1
	Rep. kit: 24 V motor**	1	504-36829-2
12	Woodruff key 3 x 5	1	214-13123-1
13	Hydraulic lub. fitting AR 1/4 Z***	1	251-14045-9
14	Compression spring DA 11 x 1 x 10***	1	300-19215-1
15	Filter insert	1	528-31836-1
16	Closure plug M 22 x 1,5 x 12	2	303-19285-1
17	Washer B 10,5 C	1	209-13072-3
18	Rotary shaft seal 10 x 22 x 7	1	220-12231-3
19	Hexagon socket head screw M 6 x 25	3	201-12534-1
20	Eccentric	1	400-22953-1
21	Retaining ring A 30 x 1,5	2	211-12164-7
22	O-ring ø 137 x 3	1	219-13084-1
23	Inner ring Ø 30 x 35 x 16	1	250-14006-5
24	Washer 10,5 C	1	209-12152-8
25	Grooved ball bearing D10 / 26 x 8	1	250-14009-7
26	Washer 6,4 C	4	209-13649-1
27	Stirring paddle assy.	1	500-30815-2
28	Scraper rubber, short	1	400-23033-1
29	Scraper rubber, long	1	400-23032-1

Pump : 604-37207-2  
604-37208-2

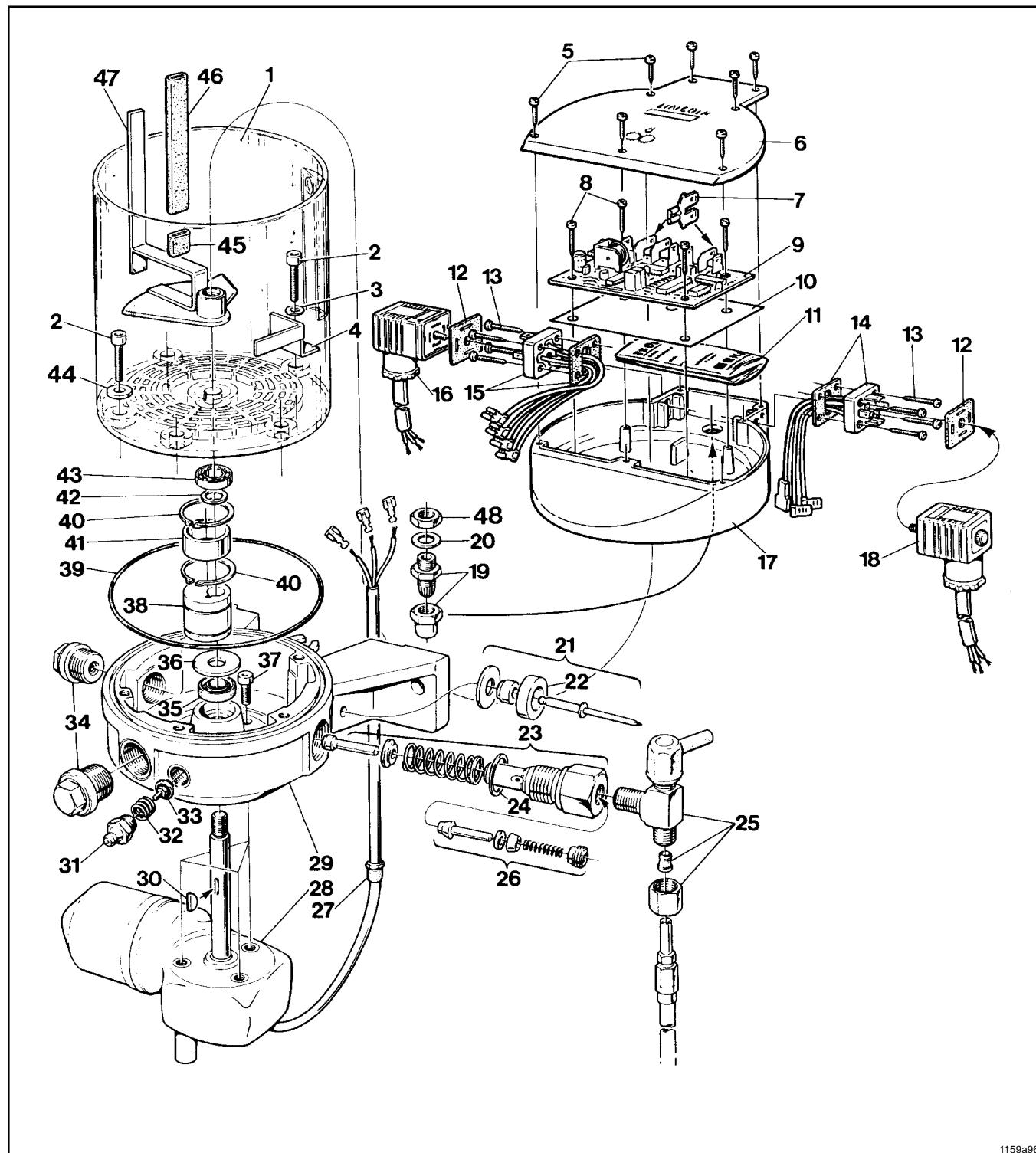
\* Conversion kit :from big motor to small motor version

\*\*Small motor version

\*\*\* parts are deleted

**Model 103**

**Reservoir with Integrated Control p.c.b. - Type E1 and/or E2 or BS**



1159a96

# User's Manual

## Components Parts of Central lubrication pump 103 and 203



2.0A-20003-D00

Item	Designation	Qty.	Part no.	Item	Designation	Qty.	Part no.
1	Kit: reservoir 2XNKF including items 2, 3, 25, 26	1	500-36729-1	26	Check valve Ø 5 mm, assy.	1	504-36071-8
2	Hexagon socket head screw M 6 x 25 C	5	201-13668-1	27	Check valve Ø 6 mm, assy.	1	504-36071-4
3	Tooth lock washer J 6,4 Z	1	210-12161-3	28	Check valve Ø 7 mm, assy.	1	504-36071-9
4	Fixed paddle	1	400-22956-1		Sleeve	1	237-13375-2
5	Self-tapping screw 2,9 x 16,0	7	206-13725-5		Rep. Kit: 12 V motor*	1	504-36730-5
6	Lid	1	401-23449-1		including items 2,3,30,35,44,45, 46 and 47		
7	Adapter 6.3	2	237-13398-1		24 V motor*	1	504-36730-7
8	Self-tapping screw 3,5 x 9,5 C	4	206-13031-8		including items 2,3, 30,35,44,45, 46 and 47		
9	Printed circuit board*** for 12 V tractors	1	236-13295-1		Rep. Kit: 12 V motor**	1	504-36829-3
	for 24 V tractors	1	236-13295-5	29	Rep. Kit: 24 V motor**	1	504-36829-4
	for 12 V trailers	1	236-13299-1	30	Housing	1	313-19314-1
	for 24 V trailers	1	236-13299-5	31	Woodruff key 3 x 5	1	214-13123-1
	for 12 construction machines	1	236-13295-2	32	Hydraulic lub. fitting AR 1/4 Z	1	251-14045-9
	for 24 construction machines	1	236-13295-6	33	Compression spring DA 11x1x10****	1	300-19215-1
10	Protective foil	1	401-23497-1	34	Filter insert	1	528-31836-1
11	Dessicant bag	1	120-35212-1		Closure plug		
12	Flat packing	1(2)	236-13294-3	35	M 22 x 1,5 x 12	2	303-19285-1
13	Self-tapping screw 2,9 x 16,0	4(8)	206-13031-7		Rotary shaft seal		
14	Appliance plug 2	1	664-36088-1	36	Ø 10 x 22 x 7	1	220-12231-3
15	Appliance plug 1	1	664-36078-5	37	Washer B 10,5 C	1	209-13072-3
16	Socket 1 with 10 m cable	1	664-36078-7	38	Hexagon socket head screw		
	Socket, black			39	M 6 x 25	3	201-12534-1
	without cable	1	236-13277-9	40	Eccentric	1	400-22953-1
17	Reservoir cover	1	400-23537-1	41	O-ring Ø 137 x 3	1	219-13084-1
18	Socket 2 with 10 m cable	1	664-36078-9	42	Retaining ring A 30 x 1,5	2	211-12164-7
19	Cable gland	1	237-13397-3	43	Inner ring Ø 30 x 35 x 16	1	250-14006-5
20	Sealing ring ø 15,2 x 19,5 x 0,5	1	306-19549-1	44	Washer 10,5 C	1	209-12152-8
21	Kit: Magnet with magnet- holder	1	540-31782-1	45	Grooved ball bearingD 10/26 x 8	1	250-14009-7
22	Magnet	1	234-13132-4	46	Washer 6,4 C	4	209-13649-1
23	Pump element assy. with piston Ø 6 mm	1	600-26876-2	47	Scraper rubber, short	1	400-23033-1
24	Sealing ring ø 22,2 x 27 x 1,5	1	306-17813-1	48	Scraper rubber, long	1	400-23032-1
25	Pressure relief valve, SVTE - 350 - R 1/4 A - D 6, old type	1	624-27158-1		Stirring paddle assy.	1	500-30815-2
	SVTE - 350 - R 1/4 A - D 6, new type	1	624-28894-1		Counter nut PG 9	1	237-13352-8
					<b>Pump:</b>		
					604-37238-1		604-37241-1
					604-37233-1		604-37240-1
					604-37237-1		604-37236-1

Subject to modifications

\* Conversion kit: from motor with big housing diameter to

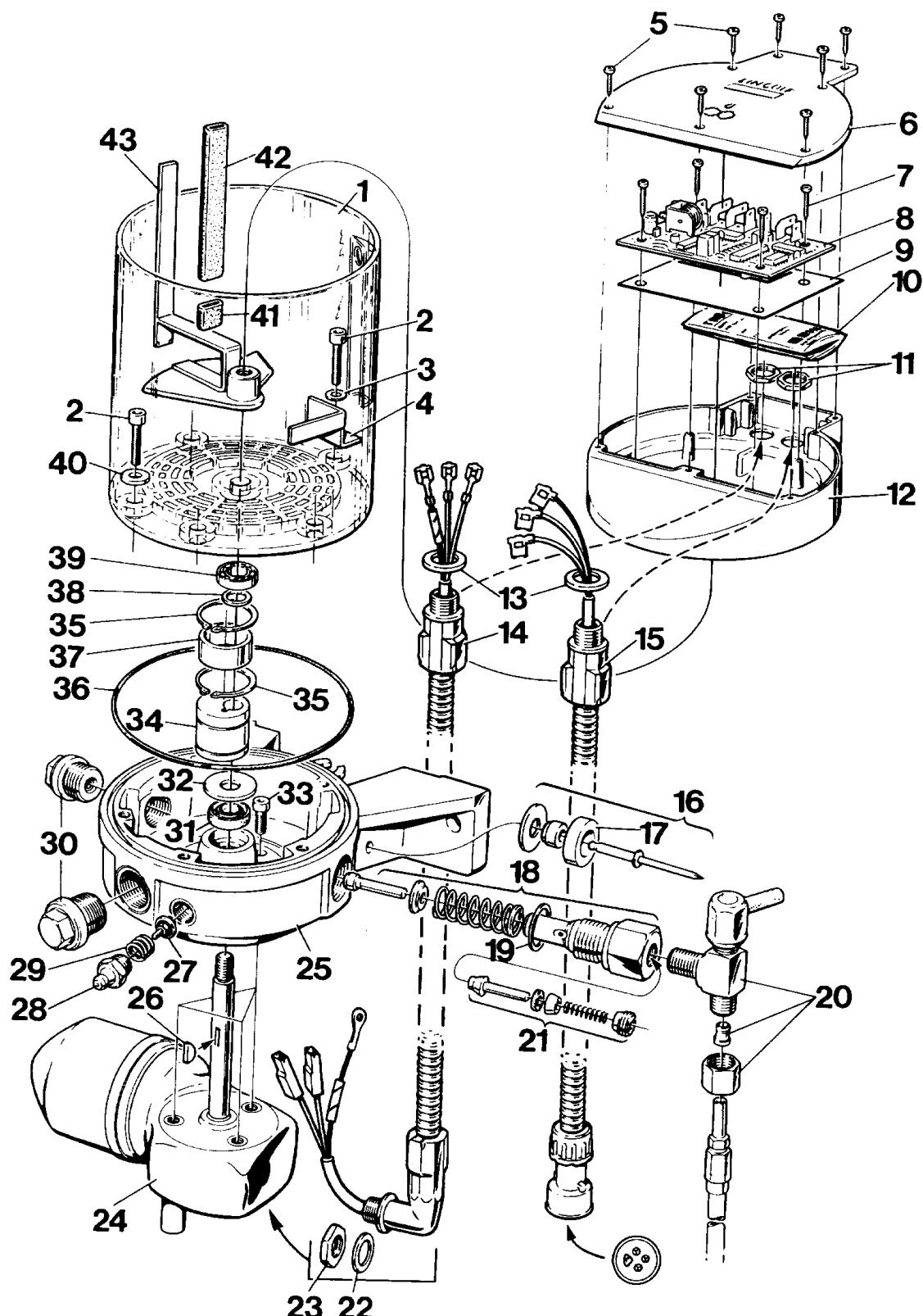
\*\* Motor with small housing diameter

\*\*\* Indicate the appropriate part no. when ordering

\*\*\*\*parts are deleted

Model 103

2-I Reservoir, ADR with Integrated Control p.c.b.



# User's Manual

## Components Parts of Central lubrication pump 103 and 203



2.0A-20003-D00

Item	Designation	Qty.	Part no.	Item	Designation	Qty.	Part no.
1	Kit: reservoir 2XNKF including items 2, 3, 39, 40	1	500-36729-1	20	Pressure relief valve SVTE - 350 - R 1/4 A - D 6, old type	1	624-27158-1
2	Hexagon socket head screw M 6 x 25 C	5	201-13668-1	21	SVTE - 350 - R 1/4 A - D 6, new type	1	624-28894-1
3	Tooth lock washer J 6,4 Z	1	210-12161-3		Check valve Ø 5 mm, assy.	1	504-36071-8
4	Fixed paddle	1	400-22956-1		Check valve Ø 6 mm, assy.	1	504-36071-4
5	Self-tapping screw 2,9 x 16	7	206-13725-5	22	Check valve Ø 7 mm, assy.	1	504-36071-9
6	Lid	1	401-23449-1	23	Washer D 30 x 15 x 1,5	1	404-24040-1
7	Self-tapping screw 3,5 x 9,5 C	4	206-13031-8	24	Counter nut PG 9	1	237-13352-8
8	Printed circuit board*				Rep. Kit: included items 2 14, 22, 23, 26, 31,		
	for 24 V tractors	1	236-13299-6		12 V motor*	1	504-36829-5
	for 12 V tractors	1	236-13299-2		24 V motor*	1	504-36829-6
	for 24 V trailers	1	236-13299-5	25	Housing	1	313-19314-1
9	Protective foil	1	401-23497-1	26	Woodruff key 3 x 5	1	214-13123-1
10	Dessicant bag	1	120-35212-1	27	Filter insert**	1	528-31836-1
11	Counter nut PG 9	2	237-13352-8	28	Hydraulic lub. fitting AR 1/4 Z	1	251-14045-9
12	Reservoir cover	1	400-23537-1	29	Compression spring DA 11x1x10**	1	300-19215-1
13	Sealing ring ø 15,2 x 19,5 x 0,5	2	306-19549-1	30	Closure plug		
14	Cable assy., motor	1	664-36088-7		M 22 x 1,5 x 12	2	303-19285-1
15	Cable with pin box	1	664-36088-9	31	Rotary shaft seal		
	Cable with socket box				Ø 10 x 22 x 7	1	220-12231-3
	10 m (not illustrated)	1	664-36088-8	32	Washer B 10,5 C	1	209-13072-3
16	Kit: Magnet with magnet-holder	1	540-31782-1	33	Hexagon socket head screw M 6 x 25	3	201-12534-1
17	Magnet	1	234-13132-4	34	Eccentric	1	400-22953-1
18	Pump element assy. with piston Ø 6 mm,	1	600-26876-2	35	Retaining ring A 30 x 1,5	2	211-12164-7
19	Sealing ring Ø 22,2 x 27 x 1,5	1	306-17813-1	36	O-ring Ø 137 x 3	1	219-13084-1
				37	Inner ring Ø 30 x 35 x 16	1	250-14006-5
				38	Washer 10,5 C	1	209-12152-8
				39	Grooved ball bearing D 10/26 x 8	1	250-14009-7
				40	Washer 6,4 C	4	209-13649-1
				41	Scraper rubber, short	1	400-23033-1
				42	Scraper rubber, long	1	400-23032-1
				43	Stirring paddle assy.	1	500-30815-2

**Pump:** 604-37284-1 604-37292-1  
604-37289-1 604-37291-1

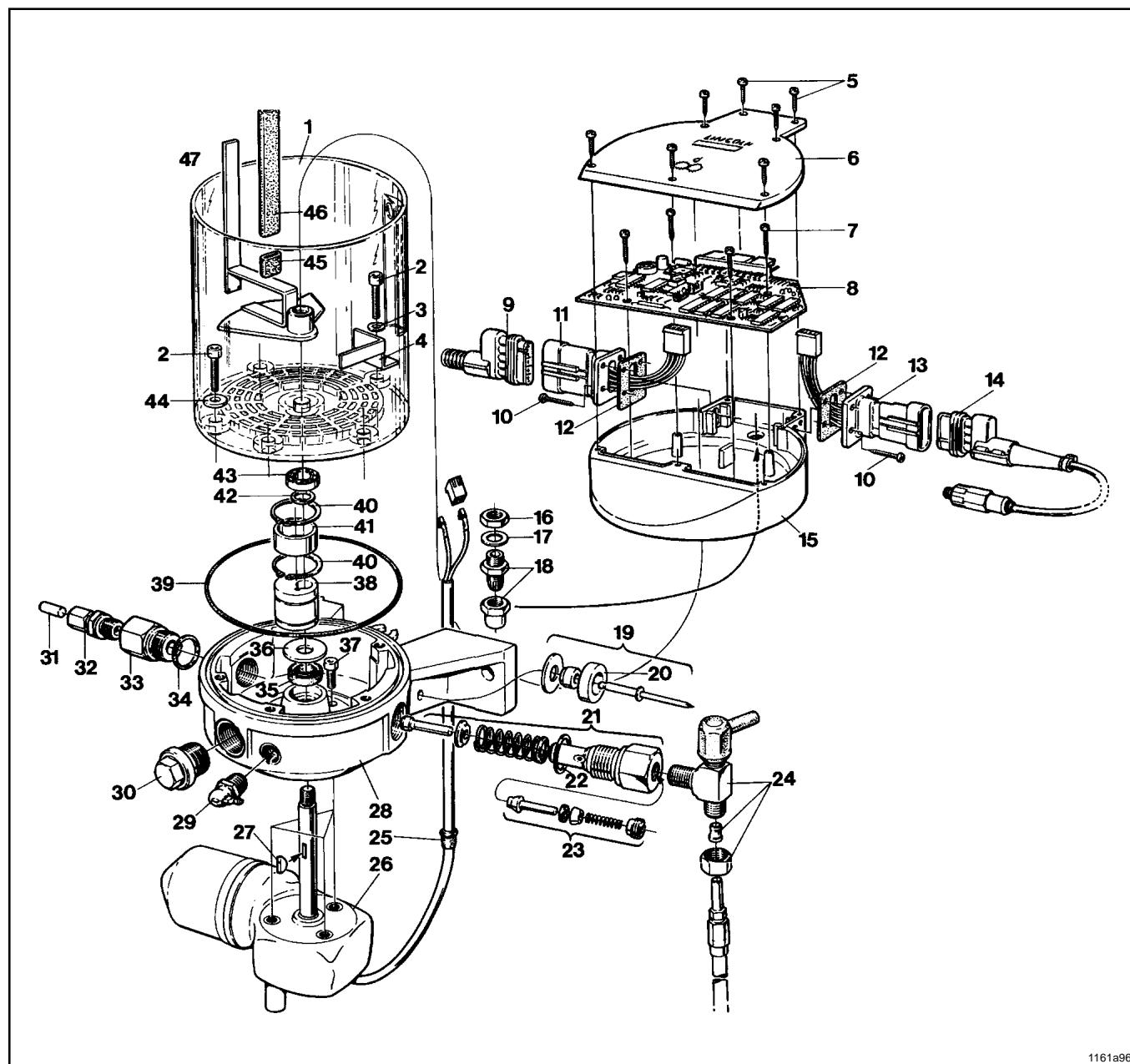
Subject to modifications

\* Indicate the appropriate part no. when ordering.

\*\* parts are deleted

**Model 103**

**2-I Reservoir with Integrated Control p.c.b. E4, Monitored**



1161a96

# User's Manual

## Components Parts of Central lubrication pump 103 and 203



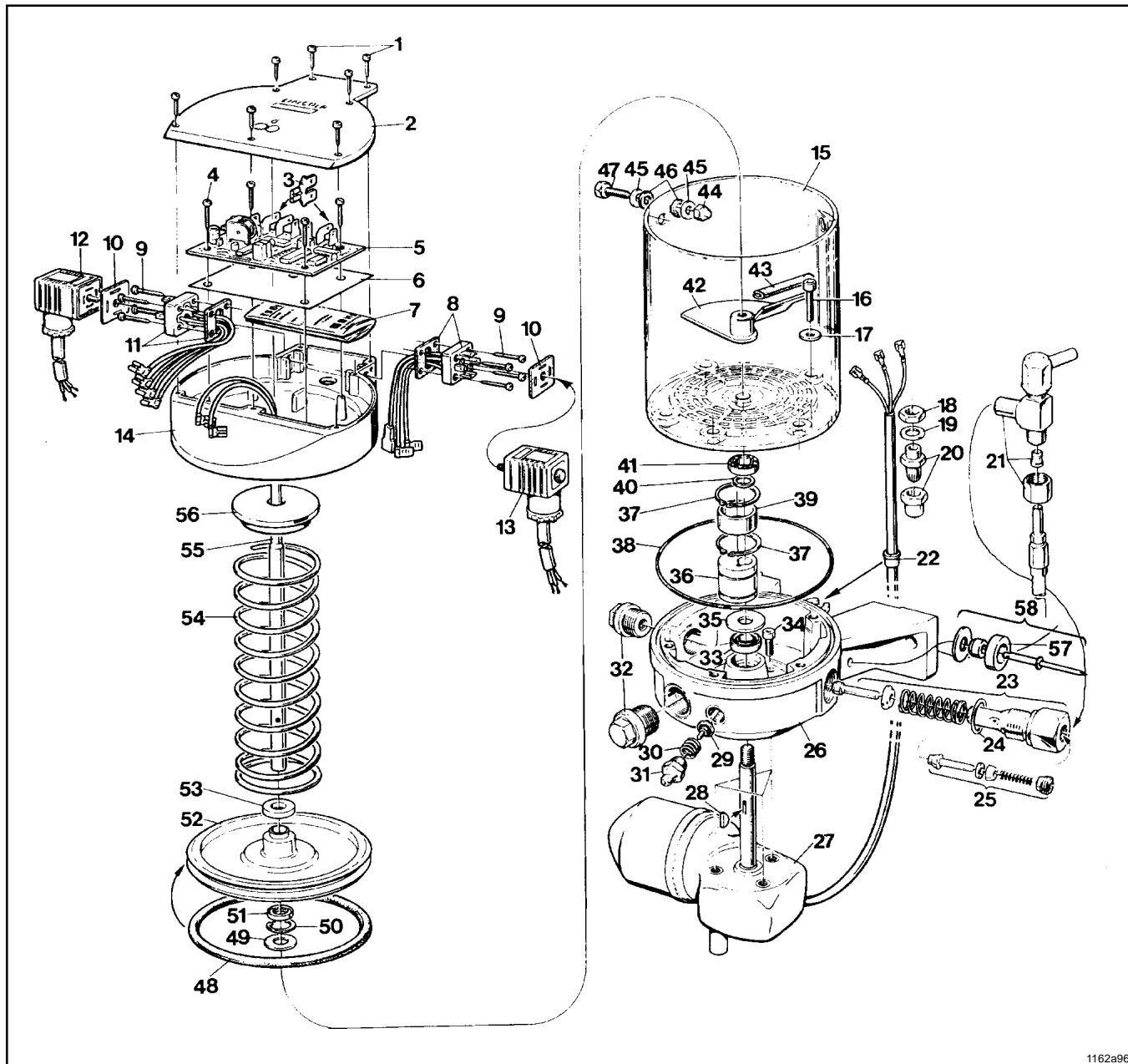
2.0A-20003-D00

Item	Designation	Qty.	Part no.	Item	Designation	Qty.	Part no.
1	Kit: Reservoir 2XNKF including items 2, 3, 35, 44	1	500-36729-1	24	Pressure relief valve SVTE - 350 - R 1/4 A - D 6, old type	1	624-27158-1
2	Hexagon socket head screw M 6 x 25 C	5	201-13668-1	25	SVTE - 350 - R 1/4 A - D 6, new type	1	624-28894-1
3	Tooth lock washer J 6,4 Z	1	210-12161-3	26	Cable sleeve	1	237-13375-2
4	Fixed paddle	1	400-22956-1	27	Rep. kit: 24 V motor	1	504-36830-3
5	Self-tapping screw 2,9 x 16	7	206-13725-5	28	Woodruff key 3 x 5	1	214-13123-1
6	Lid	1	401-23449-1	29	Housing	1	313-19314-1
7	Self-tapping screw 3,5 x 9,5 C	4	206-13031-8	30	Hydraulic. lub. fitting AR 1/4 Z	1	251-14045-9
8	Printed circuit board for 12/24 V tractors	1	236-13811-1	31	Closure plug M 22 x 1,5 x 12	1	303-19285-1
9	Connection cable with socket box, 10 m	1	664-36844-8	32	Dowel pin D 6 x 28 Z*	1	215-12194-4
10	Screw BZ 3,0 x 10,0 C	8	206-13796-6	33	GE 6 - LG 1/4 AC*	1	223-12477-8
11	Flanged plug, 5- pole	1	664-36844-5	34	Adapter M 22x1,5 a x R 1/4 i C*	1	304-17571-1
12	Packing 35 x 27 x 1	2	306-19562-1	35	Sealing ring Ø 22,2 x 27 x 1,5	1	306-17813-1
13	Flanged plug, 4- pole	1	664-36844-4	36	Rotary shaft seal 10 x 22 x 7	1	220-12231-3
14	Piston detector with plug (not included in supplied parts)	1	234-13158-5	37	Washer B 10,5 C	1	209-13072-3
15	Reservoir cover	1	400-23537-1	38	Hexagon socket head screw M 6 x 25	3	201-12534-1
16	Counter nut PG 9	1	237-13352-8	39	Eccentric	1	400-22953-1
17	Sealing ring Ø15,2 x 19,5 x 0,5	1	306-19549-1	40	O-ring Ø 137 x 3	1	219-13084-1
18	Cable gland PG 9	1	237-13397-3	41	Retaining ring A 30 x 1,5	2	211-12164-7
19	Kit: Magnet with magnet-holder	1	540-31782-1	42	Inner ring IR 30 x 35 x 16	1	250-14006-5
20	Magnet	1	234-13132-4	43	Washer 10,5 C	1	209-12152-8
21	Pump element assy. with piston Ø 6 mm,	1	600-26876-2	44	Grooved ball bearing D 10/26 x 8	1	250-14009-7
22	Sealing ring Ø 22,2 x 27 x 1,5	1	306-17813-1	45	Washer 6,4 C	4	209-13649-1
23	Check valve Ø 5 mm, assy.	1	504-36071-8	46	Scraper rubber, short	1	400-23033-1
	Check valve Ø 6 mm, assy.	1	504-36071-4	47	Scraper rubber, long	1	400-23032-1
	Check valve Ø 7 mm, assy.	1	504-36071-9		Stirring paddle assy.	1	500-30815-2
<b>Pump:</b>							
					604-36289-7		604-37445-1

\* Special equipment

**Model 103**

**2-I Reservoir with Integrated Control p.c.b. and Low-level Control - Types E1 and E2**



# User's Manual

## Components Parts of Central lubrication pump 103 and 203

**LINCOLN**  
INDUSTRIAL®

2.0A-20003-D00

Item	Designation	Qty.	Part no.	Item	Designation	Qty..	Part no.
1	Self-tapping screw 2,9 x 16	7	206-13725-5	27	Rep. kit: 12 V motor	1	504-36829-3
2	Lid	1	401-23449-1	28	Rep. kit 24 V motor	1	504-36829-4
3	Adapter 6.3	2	237-13398-1	29	Woodruff key 3 x 5	1	214-13123-1
4	Self-tapping screw 3,5 x 9,5	4	206-13031-8	30	Filter insert*	1	528-31836-1
5	Printed circuit board for 12 V tractors	1	236-13295-1	31	Compression spring DA 11 x 1 x 10*	1	300-19215-1
	for 24 V tractors	1	236-13295-5	32	Rotary shaft seal AR 1/4 Z	1	251-14045-9
6	Protective foil	1	401-23497-1	33	Closure plug M 22 x 1,5 x 12	2	303-19285-1
7	Dessicant foil	1	120-35212-1	34	Rotary shaft seal 10 x 22 x 7	1	220-12231-3
8	Appliance plug 2	1	664-36088-1	35	Hexagon socket head screw M 6 x 25 C	3	201-12534-1
9	Self-tapping screw 2,9 x 16	4(8)	206-13031-7	36	Washer B 10,5 C	1	209-13072-3
10	Flat packing	1(2)	236-13294-3	37	Eccentric	1	400-22953-1
11	Appliance plug 1	1	664-36078-5	38	Retaining ring A 30 x 1,5	2	211-12164-7
	Socket, black	1	236-13277-9	39	O-ring Ø 137 x 3	1	219-13084-1
12	Socket 1 with 10 m cable	1	664-36078-7	40	Inner ring Ø 30 x 35 x 16	1	250-14006-5
13	Socket 2 with 10 m cable	1	664-36078-9	41	Washer 10,5 C	1	209-12152-8
14	Reservoir lid	1	400-23537-1	42	Grooved ball bearing D 10/26 x 8	1	250-14009-7
15	Kid: Reservoir 2XLKF included items 15, 16, 17, 38, 41	1	500-36729-2	43	Stirring paddle assy.	1	500-30944-1
16	Hexagon socket head screw M 6 x 25 C	5	201-13668-1	44	Hose	1	500-32111-1
17	Washer 6,4 C	4	209-13649-1	45	Acorn nut M 5 C	3	207-12247-3
18	Counter nut PG 9	1	237-13352-8	46	Washer A 5,3 C	6	209-13077-3
19	Sealing ring Ø 15,2 x 19,5 x 0,5	1	306-19549-1	47	Sealing ring Ø 3,8 x 10 x 2	6	306-19194-1
20	Cable gland PG 9	1	237-13397-3	48	Hexagon socket head screw M 5 x 16 C	3	200-13017-9
21	Pressure relief valve SVTE - 350 R 1/4 A - D 6, old type	1	624-27158-1	49	Packing	1	111-35089-3
	SVTE - 350 R 1/4 A - D 6, new type	1	624-28894-1	50	Distance washer 12 x 24 x 1	1	209-12157-6
22	Cable sleeve	1	237-13375-2	51	Snap ring SB 18	1	211-12167-4
23	Pump element assy. with piston Ø 6 mm,	1	600-26876-2	52	U-Cup packing 12 x 18 x 4 x 2	1	220-12512-7
24	Sealing ring Ø 22,2 x 27 x 1,5	1	306-17813-1	53	Follower plate assy.		
25	Check valve Ø 5 mm, assy.	1	504-36071-8	54	including items 48, 50, 51, 53	1	500-30801-2
	Check valve Ø 6 mm, assy.	1	504-36071-4	55	Permanent magnet	1	234-13111-4
	Check valve Ø 7 mm, assy.	1	504-36071-9	56	Compression spring DA 42 x 2,5 x 141	1	218-13623-4
26	Housing	1	313-19314-1		Contact rod	1	400-23582-1
					Spring guide	1	400-23709-1

**Pump:**

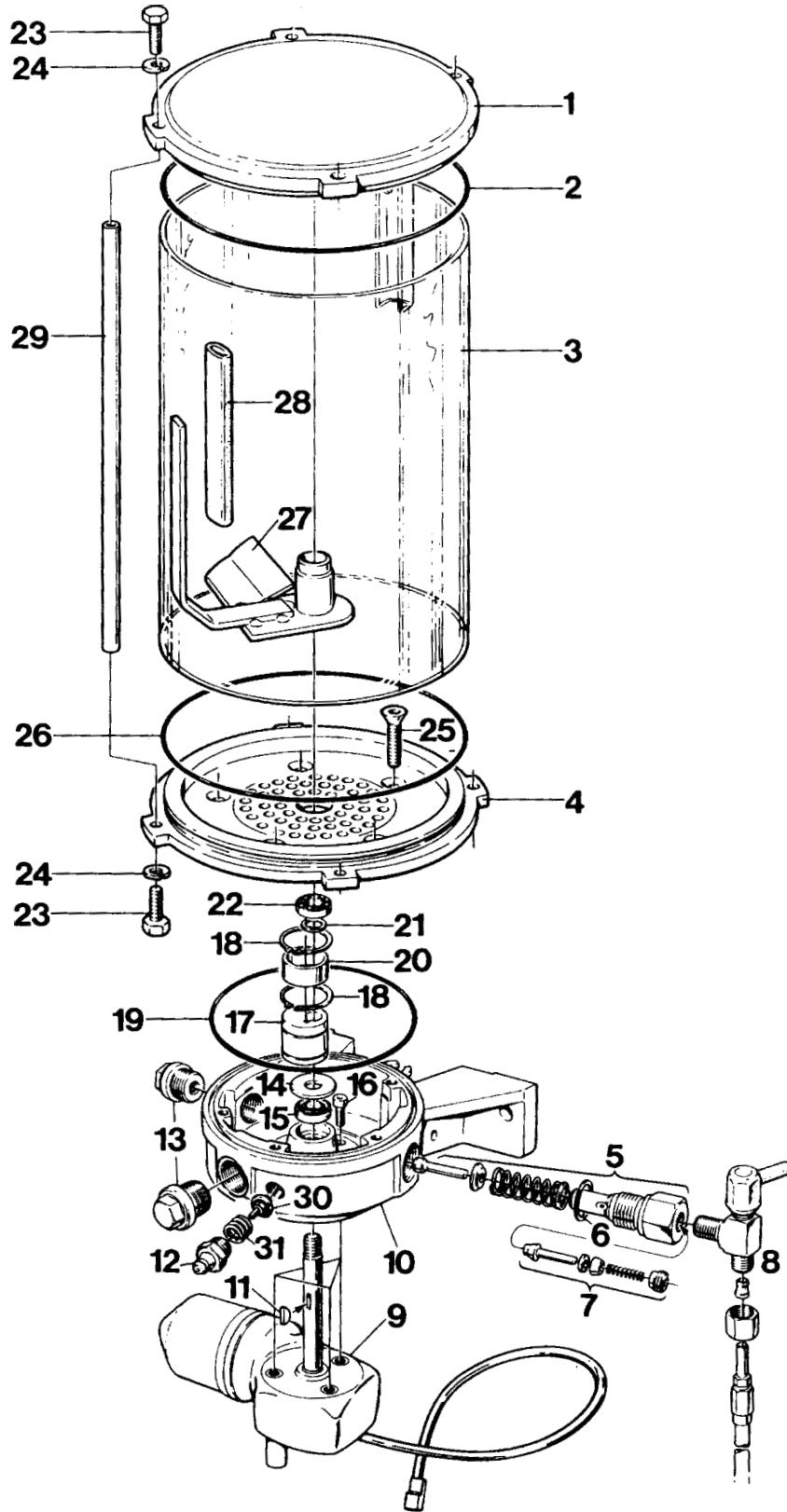
604-37239-1

604-37234-1

\* parts are deleted

**Model 103**

**5-I Reservoir Without Control p.c.b.**



**User's Manual**  
**Components Parts of Central lubrication pump 103 and 203**



2.0A-20003-D00

Item	Designation	Qty.	Part no.	Item	Designation	Qty.	Part no.
1	Cover	1	314-19420-1	14	Washer B 10,5 C	1	209-13072-3
2	O - ring Ø 190x5 mm	1	219-13601-9	15	Rotary shaft seal	1	220-12231-3
3	Reservoir tube assy.	1	540-31714-1	16	10 x 22 x 7	1	220-12231-3
4	Bottom	1	314-19498-1	17	Hexagon socket head screw	3	201-12534-1
5	Pump element assy. with piston Ø 6 mm,	1	600-26876-2	18	M 6 x 25	1	400-22953-1
6	Sealing ring ø 22,2 x 27 x 1,5	1	306-17813-1	19	Eccentric	2	211-12164-7
7	Check valve Ø 5 mm, assy.	1	504-36071-8	20	Safety ring A 30 x 1,5	1	219-13084-1
	Check valve Ø 6 mm, assy.	1	504-36071-4	21	O-ring Ø 137x3	1	250-14006-5
	Check valve Ø 7 mm, assy.	1	504-36071-9	22	Inner ring Ø 30 x 35 x 16	1	209-12152-8
8	Pressure relief valve			23	Washer 10,5 C	1	250-14009-7
	SVTE - 350 - G 1/4 A - D 6	1	624-28070-1	24	Grooved ball bearing D 10/26 x 8	1	250-14009-7
9	Rep. kit: 12 V motor			25	Hexagon socket head screw	8	200-13022-7
	including items 11, 15	1	504-36829-7	26	M 6 x 20 C	8	213-12168-8
	24 V motor			27	Spring lock washer A 6 C	5	202-12049-7
	including items 11, 15	1	504-36829-8	28	Falt head screw M 6 x 25 C	1	219-13601-7
10	Housing	1	313-19314-1	29	O - ring, Ø 180x5	1	500-31711-1
11	Woodruff key 3 x 5	1	214-13123-1	30	Stirring paddle assy.	1	400-23852-1
12	Hydraulic. lub fitting AR 1/4 Z	1	251-14045-9	31	Scraper rubber	4	440-23813-1
13	Closure plug			30	Spacer tube	1	528-31836-1
	M 22 x 1,5 x 12	2	303-19285-1	31	Filter insert*	1	300-19215-1
					Compression spring DA 11 x 1 x 10	1	604-37298-1

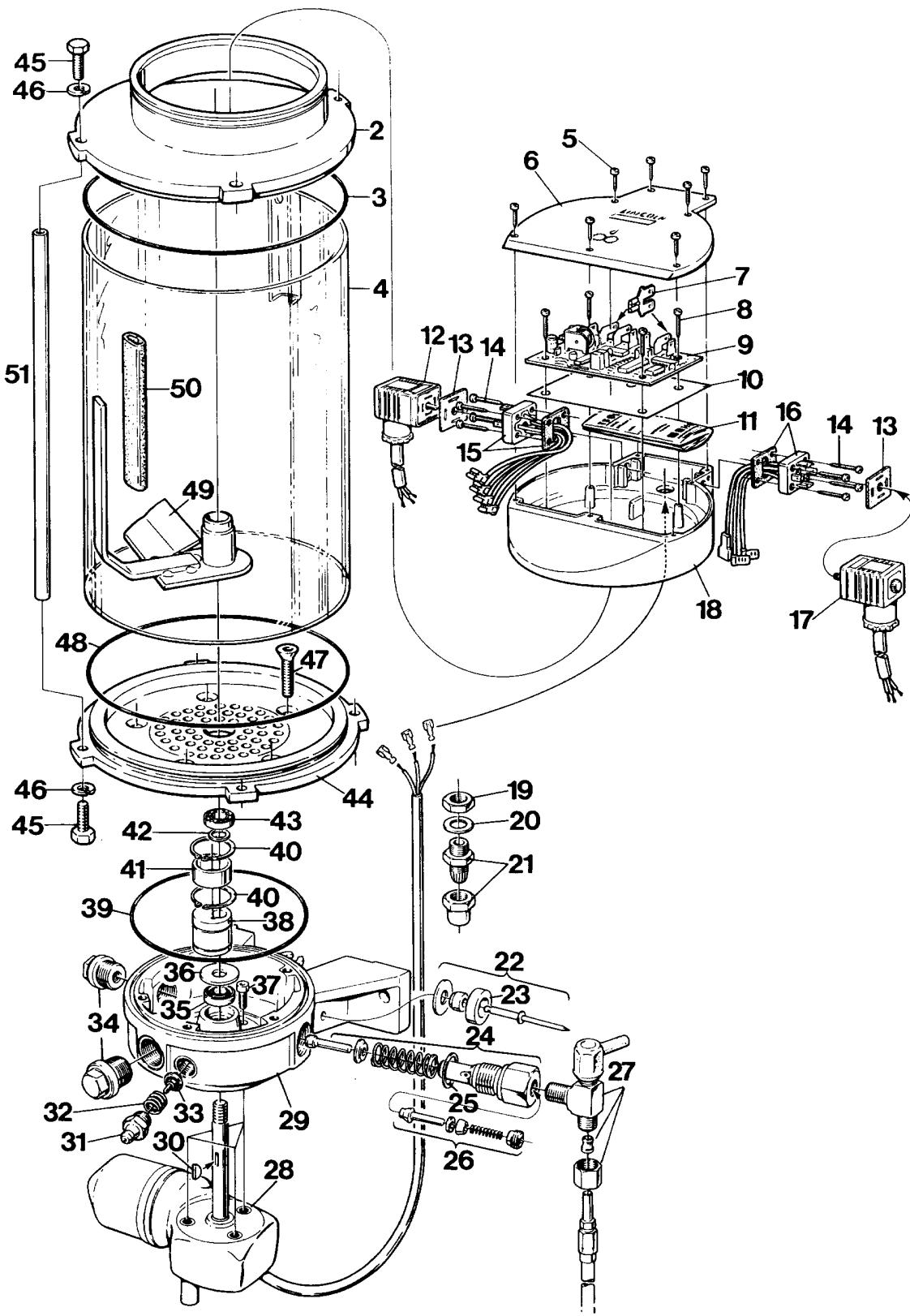
**Pump:**

604-37298-1  
604-37297-1

\* parts are deleted

**Model 103**

**5-I Reservoir with Integrated Control p.c.b., Types E 1 and/or E 2**



# User's Manual

## Components Parts of Central lubrication pump 103 and 203



2.0A-20003-D00

Item	Designation	Qty.	Part no.	Item	Designation	Qty.	Part no.
2	Adapter	1	314-19514-1	25	Sealing ring Ø 22,2 x 27 x 1,5	1	306-17813-1
3	O - ring Ø 190x5	1	219-13601-9	26	Check valve Ø 5 mm, assy.	1	504-36071-8
4	Reservoir tube assy.	1	540-31714-1		Check valve Ø 6 mm, assy.	1	504-36071-4
5	Self-tapping screw 2,9 x 16 A 2	7	206-13725-5		Check valve Ø 7 mm, assy.	1	504-36071-9
6	Lid	1	401-23449-1	27	Pressure relief valve		
7	Adapter 6.3	2	237-13398-1		SVEVT - 350 - G 1/4 A - D 6	1	624-28070-1
8	Self-tapping screw 2,9 x 16 C	4	206-13031-7	28	Rep. Kit: 12 V motor		
9	12 V Printed circuit board	1	236-13295-1		including items 30, 35	1	504-36830-1
	24 V Printed circuit board	1	236-13295-5		24 V motor		
10	Protective foil	1	401-23497-1		including items 30, 35	1	504-36830-2
11	Dessicant bag	1	120-35212-1	29	Housing	1	313-19314-1
12	Socket 1 with 10 m cable	1	664-36078-7	30	Woodruff key 3 x 5	1	214-13123-1
	Socket, black	1	236-13277-9	31	Hydraulic lub. fitting		
13	Felt packing	1(2)	236-13294-3	32	AR 1/4 Z	1	251-14045-9
14	Self-tapping screw 2,9 x 16 C	4(8)	206-13031-7	33	Compression spring DA 11 x 1 x 10*	1	300-19215-1
15	Appliance plug 1	1	664-36078-5	34	Filter insert*	1	528-31836-1
16	Appliance plug 2	1	664-36088-1		Closure plug		
17	Socket 2 with 10 m cable	1	664-36078-9	35	M 22 x 1,5 x 12	2	303-19285-1
	Socket, black	1	236-13277-9	36	Rotary shaft seal		
18	Reservoir lid	1	400-23537-1	37	10 x 22 x 7	1	220-12231-3
19	Counter nut PG 9	1	237-13352-1	38	Washer B 10,5 C	1	209-13072-3
20	Sealing ring Ø 15,2 x 19,5 x 0,5	1	306-19549-1	39	Hexagon socket head screw		
21	Cable gland PG 9	1	237-13397-3	40	M 6 x 25	3	201-12534-1
22	Kit: Magnet with magnet- holder	1	540-31782-1	41	Eccentric	1	400-22953-1
23	Magnet	1	234-13132-4	42	O - ring Ø 137 x 3	1	219-13084-1
24	Pump element assy. with piston Ø 6 mm,	1	600-26876-2	43	Safety ring A 30 x 1,5	2	211-12164-7
				44	Inner ring IR 30 x 35 x 16	1	250-14006-5
				45	Washer 10,5 C	1	209-12152-8
				46	Grooved ball bearing D 10/26 x 8	1	250-14009-7
				47	Bottom	1	314-19498-1
				48	Hexagon socket head screw		
				49	M 6 x 20	8	200-13022-7
				50	Spring lock washer A 6 C	8	213-12168-8
				51	Flat head screw M 6 x 25 C	5	202-12049-7
					O-ring Ø 137 x 3	1	219-13084-1
					Stirring paddle assy.	1	500-31711-1
					Scraper rubber	1	400-23852-1
					Spacer tube D 8 x 208,5	4	440-23813-1

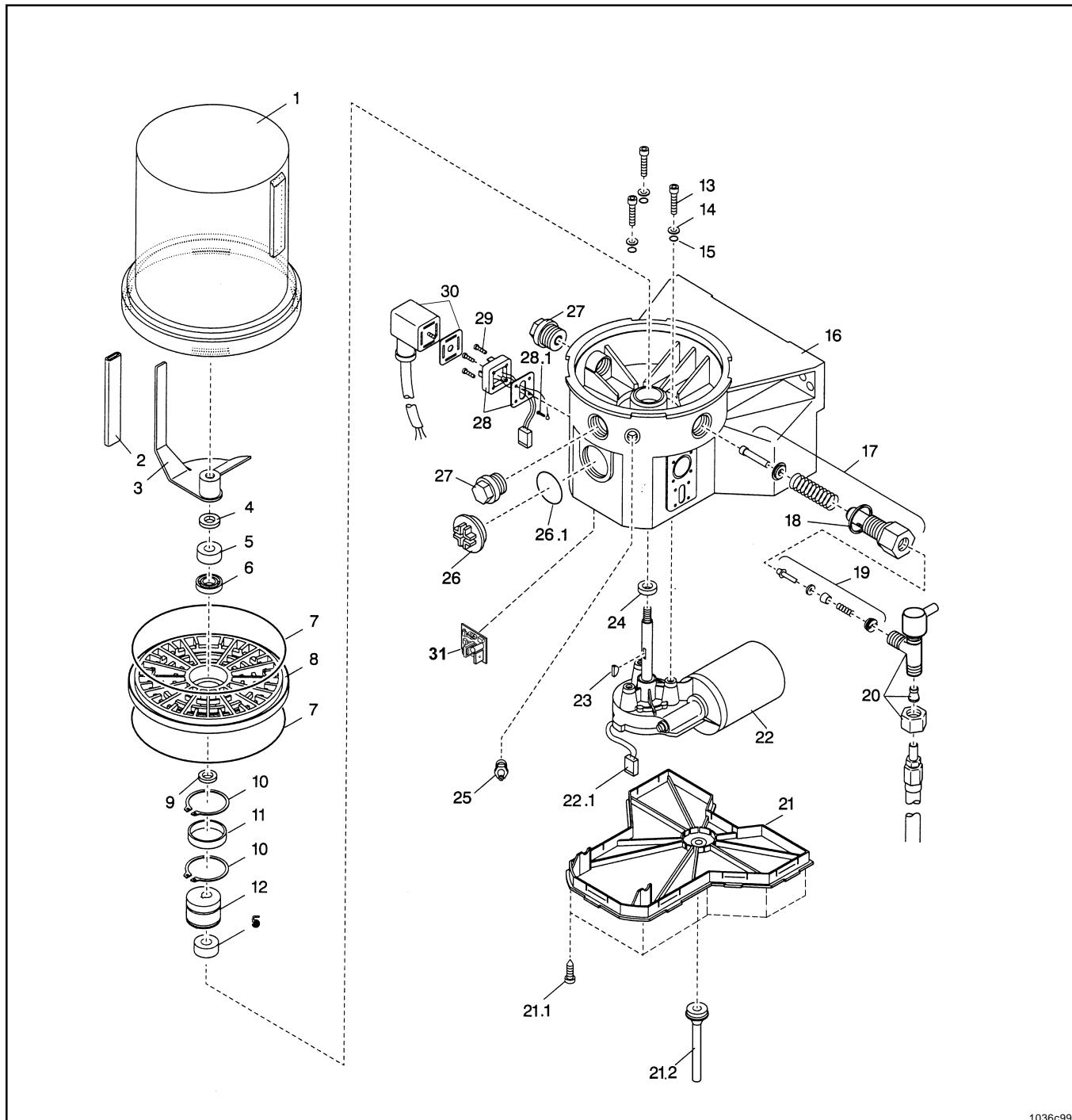
\* parts are deleted

Pump:

604-37293-1  
604-37295-1  
604-37294-1  
604-37296-1

## Component Parts of QUICKLUB Pumps Model 203

2-I Reservoir, Standard, Without Control p.c.b. Type of Connection 1A1.10



1036c99

**User's Manual**  
**Components Parts of Central lubrication pump 103 and 203**



2.0A-20003-D00

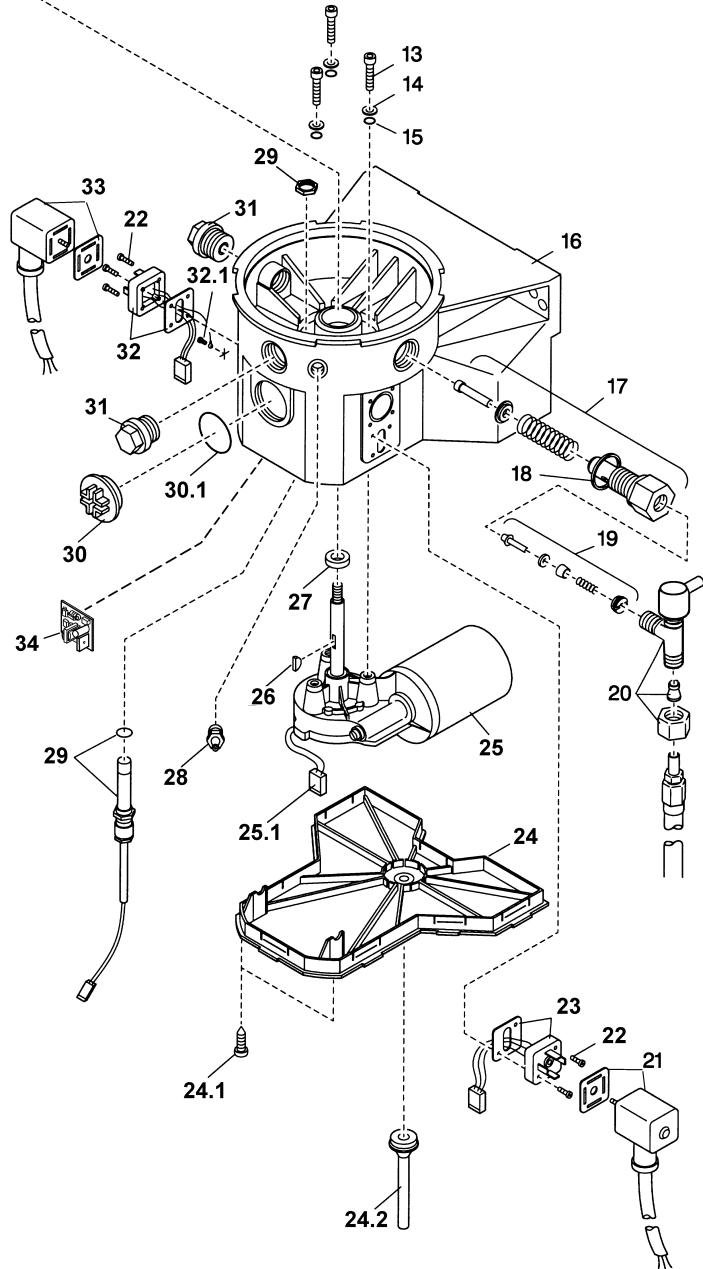
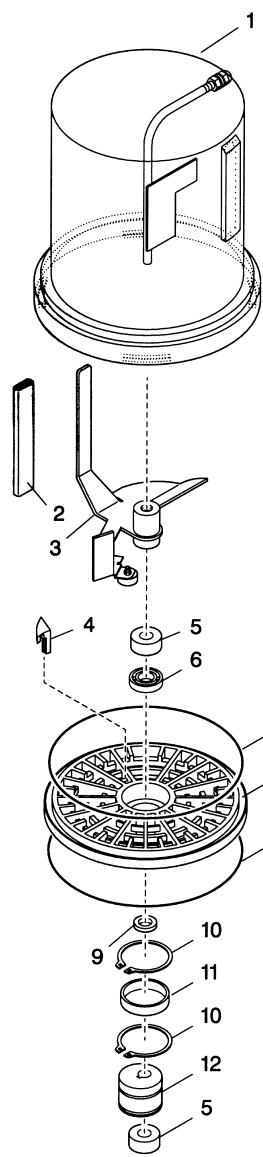
Item	Designation	Qty.	Part no.	Item	Designation	Qty.	Part no.
1	Reservoir 2 XN	1	544-31996-1	21	Housing cover		
2	Hose 12,5 cm	1	111-35089-2		up to serial number 9810010249		
3	Stirring paddle assy.	1	544-31882-1		and 981000063C	1	444-24172-1
4	Washer 8,4	1	209-13072-6		from serial number 9810010250		
5	Bearing ring	2	444-24168-1		and 981000064C	1	444-24667-1
6	Grooved ball bearing D10/26 x 8	1	250-14009-7	21.1	Screw f. KF, 3 x 25	10	206-13796-7
7	O - ring Ø 144 x 4	2	219-13730-7	21.2	Drain tube	1	444-24310-1
8	Intermediate bottom	1	444-24167-1	22	Repair kit: DC motor		
9	Shim10 x 16 x 1,2	1	209-13047-5		including items 7, 13, 14,15,24.1,		
10	Snap ring SW 32	2	211-14100-1		25, 26		
11	Pressure ring Ø 33 x 37 x 13	1	444-24439-1		12 VDC	1	544-36913-1
12	Eccentric	1	444-24170-2		24 VDC	1	544-36913-2
13	Hexagon socket head screw			22.1	Motor connection	1	664-36862-3
	M 6x25 C	3	201-13668-3	23	Woodruff key 3 x 5	1	214-13123-1
14	Washer	3	444-24169-1	24	Rotary shaft seal		
15	O - ring Ø 6 x 2	3	219-13084-2		BA 10 x 22 x 7	1	220-12231-3
16	Housing			25	Hydraulic lub. fitting AR 1/4 Z	1	251-14045-9
	up to serial number 9810010249	1	444-24171-1	26	Protective plug, M 33 x 2	1	233-13124-9
	and 981000063C			26.1	O - ring Ø 31 x 2	1	219-14138-2
	Kit: housing assy, with housing cover			27	Closure plug		
	an thightening screws	1	544-32191-1		M 22 x 1,5 x 12	2	303-19285-1
	from serial number 9810010250			28	Appliance plug 1		
	and 981000064C	1	444-24666-1		with cable	1	664-36862-6
17	Pump element with assy.			28.1	Self-tapping screw 3,9 x 6,5 C	1	206-13725-7
	piston Ø 5 mm	1	600-26875-2	29	Screw BZ 3 x 10 C	8	206-13796-
	piston Ø 6 mm	1	600-26876-2	30	Appliance plug 1		
	piston Ø 7 mm	1	600-26877-2		with falt packing and 10 m cable		
	piston Ø 7 mm for chisel paste	1	600-28750-1		Socket 1 (black) *		
	adjustable pump element	1	655-26178-1		with 10 m cable	1	664-36078-7
18	Sealing ring Ø 22,2 x 27 x 1,5	1	306-17813-1		Socket, black	1	236-13277-9
19	Check valve Ø 5 mm, assy.	1	504-36071-8	31	Flat packing	1	236-13294-3
	Check valve Ø 6 mm, assy.	1	504-36071-4		Power supply		
	Check valve Ø 7 mm, assy.	1	504-36071-9		board 230 VAC*	1	544-36961-4
20	Pressure relief valve						
	SVTE - 350 - R 1/4 - D 6, old type	1	624-27158-1		Arrow: direction of rotation	1	810-55106-1
	SVTE - 350 - R 1/4 - D 6, new type	1	624-28894-1		LINCOLN Logo	1	810-55087-1

Subject to modifications

\*Alternative parts : See under " Type of Connection...", page 54-59

**Model 203**

**2-l Reservoir, Standard, Without Control p.c.b.Type of Connection 2A1.10, with Low-Level Control for Grease**



# User's Manual

## Components Parts of Central lubrication pump 103 and 203



2.0A-20003-D00

Item	Designation	Qty.	Part no.	Item	Designation	Qty.	Part no.
1	Reservoir 2 XL	1	544-32028-1	23	Appliance plug 2 with cable**	1	664-36862-5
2	Hose 12,5 cm	1	111-35089-2	24	Housing cover		
3	Stirring paddle assy.	1	544-31947-1		up to serial number 9810010249		
4	Control cam	1	444-24212-1		and 981000063C	1	444-24172-1
5	Bearing ring	2	444-24168-1		from serial number 9810010250		
6	Grooved ball bearing D 10/26 x 8	1	250-14009-7		and 981000064C	1	444-24667-1
7	O - ring Ø 144 x 4	2	219-13730-7	24.1	Screw f. KF, 3 x 25	10	206-13796-7
8	Intermediate bottom	1	444-24167-1	24.2	Drain hose	1	444-24310-1
9	Shim 10 x 16 x 1,2	1	209-13047-5	25	Repair kit: DC motor		
10	Snap ring SW 32	2	211-14100-1		including items 7, 13, 14, 15, 28.1, 29, 30		
11	Pressure ring Ø 33 x 37 x 13	1	444-24439-1		12 VDC	1	544-36913-1
12	Eccentric	1	444-24170-2		24 VDC	1	544-36913-2
13	Hexagon socket head screw			25.1	Motor connection	1	664-36862-3
	M 6 x 25 C	3	201-13668-3	26	Woodruff key 3 x 5	1	214-13123-1
14	Washer	3	444-24169-1	27	Rotary shaft seal		
15	O - ring Ø 6 x 2	3	219-13084-2		BA 10 x 22 x 7	1	220-12231-3
16	Housing			28	Hydraulic lub. fitting AR 1/4 Z	1	251-14045-9
	up to serial number 9810010249	1	444-24171-1	29	Magnetic switch	1	234-13162-5
	and 981000063C			30	Sealing plug M 33 x 2	1	233-13124-9
	Kit: housing assy, with housing cover			30.1	O - ring Ø 31 x 2	1	219-14138-2
	an tightening screws	1	544-32191-1	31	Closure plug		
	from serial number 9810010250				M 22 x 1,5 x 12	2	303-19285-1
	and 981000064C	1	444-24666-1	32	Appliance plug 1		
17	Pump element with assy.				with cable	1	664-36862-6
	piston Ø 5 mm	1	600-26875-2	32.1	Self - tapping screw 3,9 x 6,5 C	1	206-13725-7
	piston Ø 6 mm	1	600-26876-2	33	Appliance plug 1		
	piston Ø 7 mm	1	600-26877-2		with falt packing and 10 m cable		
	piston Ø 7 mm				Socket 1 (black) *		
	for chisel paste	1	600-28750-1		with 10 m cable	1	664-36078-7
	adjustable pump element	1	655-28716-1		Socket, black	1	236-13277-9
18	Sealing ring Ø 22,2 x 27 x 1,5	1	306-17813-1		Falt packing	1	236-13294-3
19	Check valve Ø 5 mm, assy.	1	504-36071-8	34	Power supply		
	Check valve Ø 6 mm, assy.	1	504-36071-4		board 230 VAC*	1	544-36961-4
	Check valve Ø 7 mm, assy.	1	504-36071-9				
20	Pressure relief valve						
	SVTE - 350 - R 1/4 A - D 6, old type	1	624-27158-1		Arrow: direction of rotation	1	810-55106-1
	SVTE - 350 - R 1/4 A - D 6, new type	1	624-28894-1		LINCOLN - Logo	1	810-55087-1
21	Socket 2 (grey) * **						
	with flat packing and 10 m cable	1	664-36078-9				
22	Screw BZ 3,0 x 10 C	8	206-13796-6				

Subject to modifications

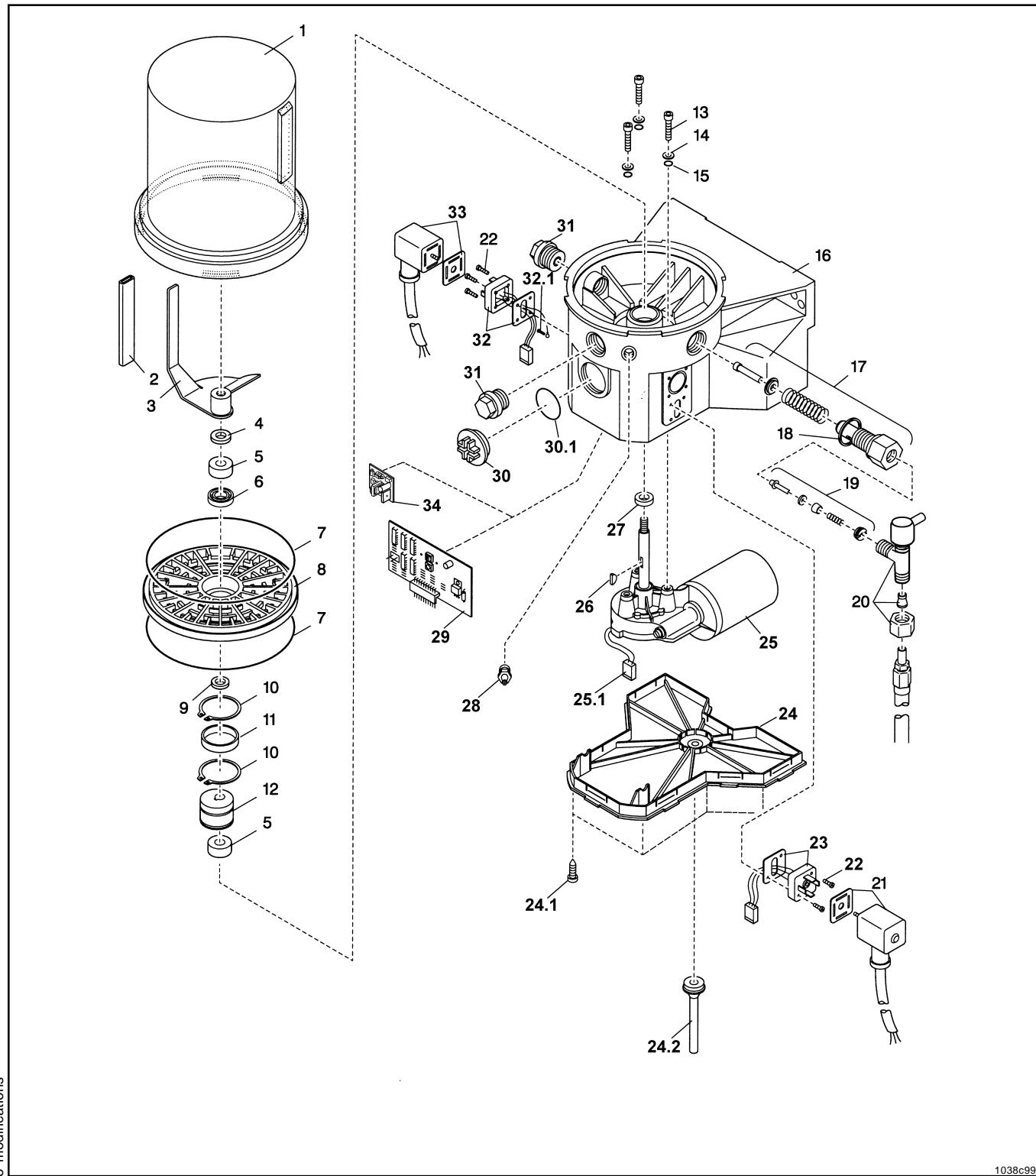
\*Alternative parts : See under " Type of Connection...", page 54-59

\*\* Only for pumps with type of connection 2A1

### Model 203

2-I Reservoir, Standard, with Integrated Control p.c.b. Models F, F ADR, V 00-V 03, V10-V13 and H

Type of connection 1A1.10 and/or 2A1.10



# User's Manual

## Components Parts of Central lubrication pump 103 and 203



2.0A-20003-D00

Item	Designation	Qty.	Part no.	Item	Designation	Qty.	Part no.
1	Reservoir 2 XN	1	544-31996-1	24	Housing cover		
2	Hose 12,5 cm	1	111-35089-2		up to serial number 9810010249		
3	Stirring paddle assy.	1	544-31882-1		and 981000063C	1	444-24172-1
4	Washer 8,4	1	209-13072-6		from serial number 9810010250		
5	Bearing ring	2	444-24168-1		and 981000064C	1	444-24667-1
6	Grooved ball bearing D 10/26 x 8	1	250-14009-7	24.1	Screw f. KF, 3 x 25	10	206-13796-7
7	O - ring Ø 144 x 4	2	219-13730-7	24.2	Drain hose	1	444-24310-1
8	Intermediate bottom	1	444-24167-1	25	Repair kit: DC motor		
9	Shim 10 x 16 x 1,2	1	209-13047-5		including items 7, 13, 14, 15, 27.1, 28, 29		
10	Snap ring SW 32	2	211-14100-1		12 VDC	1	544-36913-1
11	Pressure ring Ø 33 x 37 x 13	1	444-24439-1		24 VDC	1	544-36913-2
12	Eccentric	1	444-24170-2	25.1	Motor connection	1	664-36862-3
13	Hexagon socket head screw M 6 x 25 C	3	201-13668-3	26	Woodruff key 3x5	1	214-13123-1
14	Washer	3	444-24169-1	27	Rotary shaft seal		
15	O - ring Ø 6 x 2	3	219-13084-2	28	BA 10 x 22 x 7	1	220-12231-3
16	Housing up to serial number 9810010249 and 981000063C	1	444-24171-1	29	Hydraulic lub. fitting AR 1/4 Z	1	251-14045-9
	Kit: housing assy, with housing cover an tightening screws from serial number 9810010250 and 981000064C				12/24 VDC control p. b. c. for industrial applications an for commercial vehicles		
17	Pump element with assy.				Model F	1	236-13856-1
	piston Ø 5 mm	1	600-26875-2		Model FADR	1	236-13859-1
	piston Ø 6 mm	1	600-26876-2	30	Model V 00 - V 03, old model	1	236-13862-1
	piston Ø 7 mm	1	600-26877-2	30.1	Model V 10 - V 13, new model	1	236-13891-1
	adjustable pump element	1	655-26178-1	31	Model V20 - V23, U.S.A.	1	236-13891-2
18	Sealing ring Ø 22,2 x 27 x 1,5	1	306-17813-1		Model H	1	236-13857-1
19	Check valve Ø 5 mm, assy.	1	504-36071-8	30	Sealing plug, M 33x2	1	233-13124-9
	Check valve Ø 6 mm, assy.	1	504-36071-4	30.1	O-ring Ø 31 x 2	1	219-14138-2
	Check valve Ø 7 mm, assy.	1	504-36071-9	31	Closure plug		
20	Pressure relief valve				M 22 x 1,5 x 12	2	303-19285-1
	SVTE - 350-R 1/4 A - D 6, old model	1	624-27158-1		Appliance plug 1 with cable	1	664-36862-4
	SVTE - 350-R 1/4 A - D 6, new model	1	624-28894-1		Self - tapping screw 3,9 x 6,5 C	1	206-13725-7
21	Socket 2 (grey) * **				Socket 1 (black)* with flat packing and 10 m cable,		
	with flat packing and 10 m cable,	1	664-36078-9		standard pump	1	664-36078-7
	Socket 2 with flat packing and 10 m cable, ADR-pump	1	664-36862-2	34	socket 1, with flat packing and 10 m cable, for ADR - pump	1	664-36862-1
22	Screw BZ 3 x 10 C	8	206-13796-6		Socket, black	1	236-13277-9
23	Appliance plug 2 ** with cable	1	664-36862-5		Flat packing	1	236-13294-3
					Power supply		
					board 230 VAC*	1	544-36961-4
					Arrow: direction of rotation	1	810-55106-1
					LINCOLN-Logo	1	810-55087-1

**Pump :** 644-37400-1      644-37407-1  
 644-37399-1      644-37406-1  
 644-37402-1  
 644-37401-1  
 644-37424-1  
 644-37423-1  
 644-37426-1  
 644-37425-1  
 644-37405-1      644-37409-1  
 644-37404-1      644-37408-1  
 644-37411-1  
 644-37410-1  
 644-37447-1  
 644-37446-1

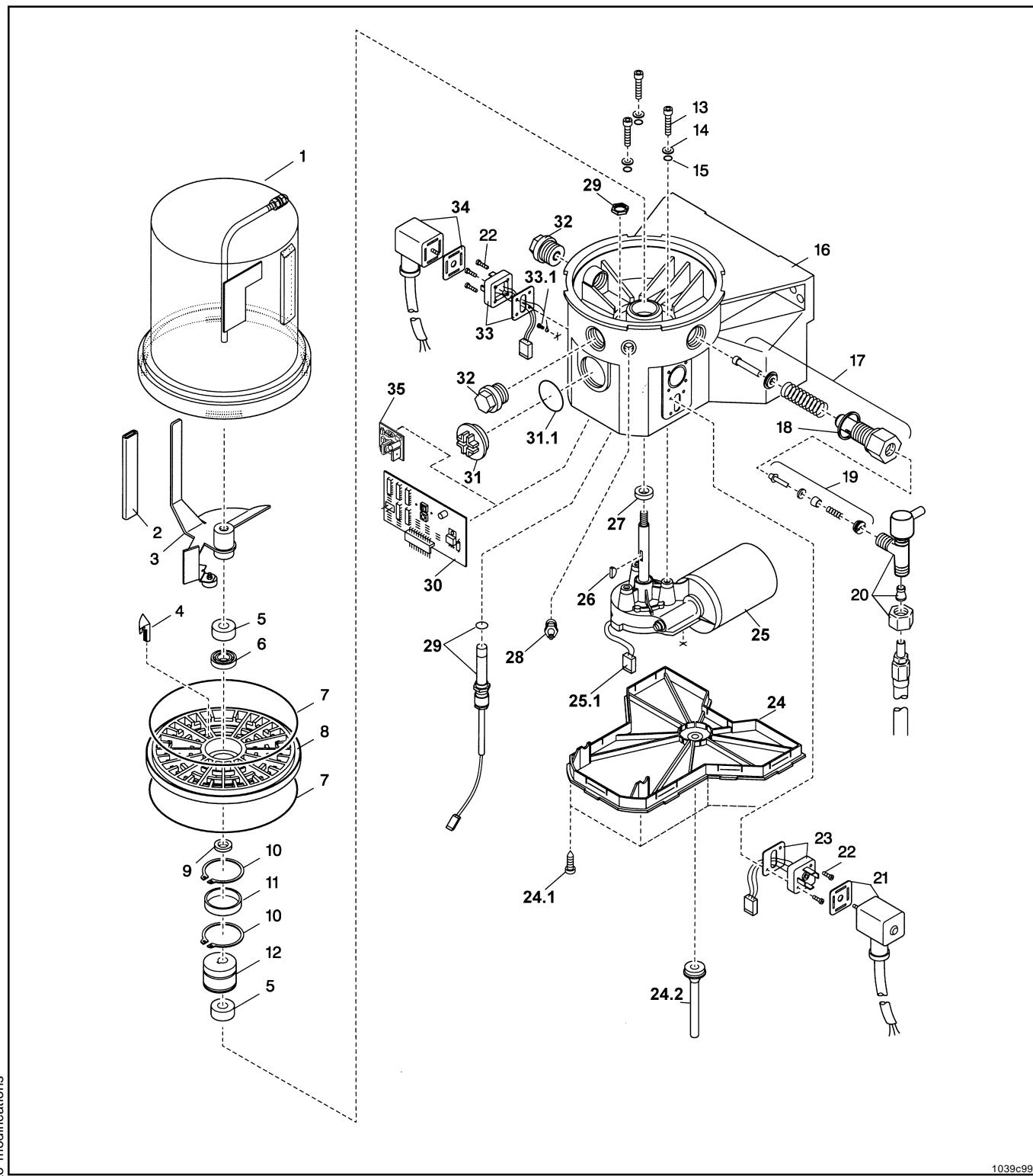
Subject to modifications

\*Alternative parts : See under " Type of Connection...", page 54-59

\*\* Only for pumps with type of connection 2A1

### Model 203

2-I Reservoir, Standard, with Integrated Control p.c.b.  
Models F, F ADR, V00-V03, V10-V13  
Type of connection 2A1.10 with Low-Level control for Grease



# User's Manual

## Components Parts of Central lubrication pump 103 and 203



2.0A-20003-D00

Item	Designation	Qty.	Part no.	Item	Designation	Qty.	Part no.
1	Reservoir 2 XL	1	544-32028-1	24	Housing cover		
2	Hose 12,5 cm	1	111-35089-2		up to serial number 9810010249		
3	Stirring paddle assy.	1	544-31947-1		and 981000063C	1	444-24172-1
4	Control cam	1	444-24212-1		from serial number 9810010250		
5	Bearing ring	2	444-24168-1		and 981000064C	1	444-24667-1
6	Grooved ball bearing D 10/26 x 8	1	250-14009-7	24.1	Screw f. KF, 3 x 25	10	206-13796-7
7	O - ring Ø 144x4	2	219-13730-7	24.2	Drain hose	1	444-24310-1
8	Intermediate bottom	1	444-24167-1	25	Repair kit: DC motor		
9	Shim 10 x 16 x 1,2	1	209-13047-5		including items 7, 13, 14, 15, 27.1, 28, 29		
10	Snap ring SW 32	2	211-14100-1		12 VDC	1	544-36913-1
11	Pressure ring Ø 33x37x13	1	444-24439-1		24 VDC	1	544-36913-2
12	Eccentric	1	444-24170-2	25.1	Motor connection	1	664-36862-3
13	Hexagon socket head screw M 6x25 C	3	201-13668-3	26	Woodruff key 3x5	1	214-13123-1
14	Washer	3	444-24169-1	27	Rotary shaft seal		
15	O - ring Ø 6x2	3	219-13084-2	28	BA 10x22x7	1	220-12231-3
16	Housing up to serial number 9810010249 and 981000063C	1	444-24171-1	29	Hydraulic lub. fitting AR 1/4 C	1	251-14045-9
	Kit: housing assy, with housing cover an tightening screws from serial number 9810010250 and 981000064C	1	544-32191-1	30	Magnetic switch for low-level	1	234-13162-4
17	Pump element with assy. piston Ø 5 mm	1	600-26875-2		12/24 VDC control p. c. b.* for industrial applications and for commercial vehicles		
	piston Ø 6 mm	1	600-26876-2		Model F	1	236-13856-1
	piston Ø 7 mm	1	600-26877-2		Model F ADR	1	236-13859-1
	adjustable pump element	1	655-26178-1	31	Model V00 - V03, old model	1	236-13862-1
18	Sealing ring ø 22,2 x 27 x 1,5	1	306-17813-1	31.1	Model V10 - V13, new model	1	236-13891-1
19	Check valve Ø 5 mm, assy.	1	504-36071-8	32	Model V20 - V23, U.S.A	1	236-13891-2
	Check valve Ø 6 mm, assy.	1	504-36071-4		Model H	1	236-13857-1
	Check valve Ø 7 mm, assy.	1	504-36071-9	33	Sealing plug, M 33x2	1	233-13124-9
20	Pressure relief valve SVTE - 350-R 1/4 A - D 6, old model	1	624-27158-1	33.1	O-ring Ø 31 x 2	1	219-14138-2
	SVTE - 350-R 1/4 A - D 6, new model	1	624-28894-1	34	Closure plug		
21	Socket 2 (grey) * ** with flat packing and 10 m cable	1	664-36078-9		M 22 x 1,5 x 12	2	303-19285-1
	Socket 2				Appliance 1		
	with flat packing and 10 m cable, for ADR-pump	1	664-36862-2		with cable	1	664-36862-4
22	Screw BZ 3 x 10 C	8	206-13796-6		Self - tapping screw 3,9 x 6,5 C	1	206-13725-7
23	Appliance plug 2 ** with cable	1	664-36862-5	35	Socket 1 (black)* with flat packing and 10 m cable,		
					standard pump	1	664-36078-7
					socket 1, with flat packing and 10 m cable, for ADR - pump	1	664-36862-1
					Socket, black	1	236-13277-9
					Flat packing	1	236-13294-3
					Power supply		
					board 230 VAC*	1	544-36961-4
					Arrow: direction fo rotation	1	810-55106-1
					LINCOLN-Logo	1	810-55087-1

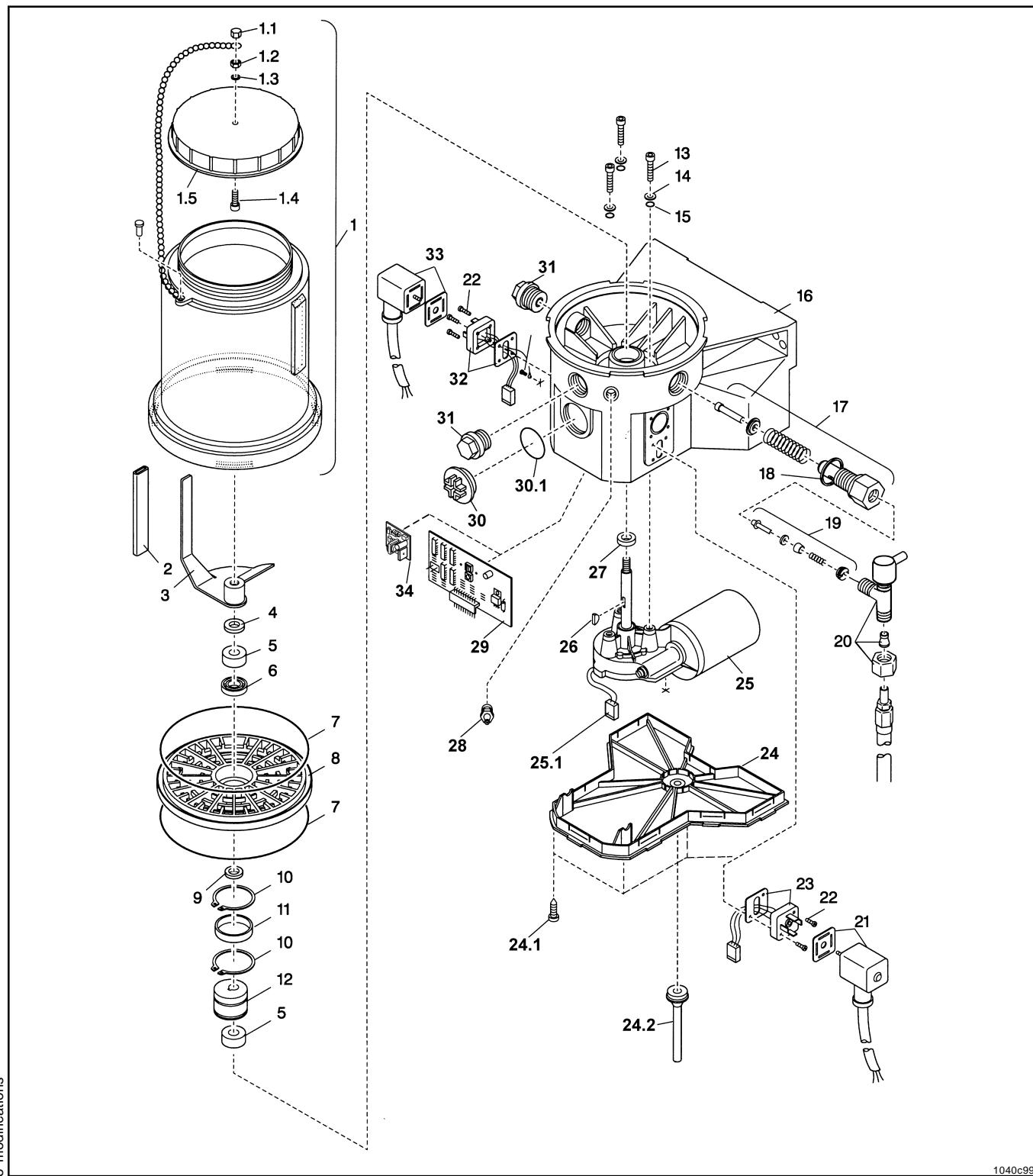
Subject to modifications

\*Alternative parts : See under " Type of Connection...", page 54-59

\*\* Only for pumps with type of connection 2A1

Model 203

**2-I Reservoir, Filling from nipple or from Top, with Integrated Control p.c.b.  
of the Models F, F ADR, V00-V03, V10-V13 and H  
Types of connection 1A.10 and/or 2A1.10**



## Subject to modifications

# User's Manual

## Components Parts of Central lubrication pump 103 and 203



2.0A-20003-D00

Item	Designation	Qty.	Part no.	Item	Designation	Qty.	Part no.
1	Reservoir 2XNBO	1	544-31940-1	24	Housing cover		
1.1	Acorn nut M 4 C	1	207-12247-5		up to serial number 9810010249		
1.2	Hexagon head screw M 4 C	1	207-12135-2		and 981000063C	1	444-24172-1
1.3	Washer A 4,3 C	1	209-12146-2		from serial number 9810010250		
1.4	Hexagon head screw M 4 x 12 C	1	200-12593-2	24.1	and 981000064C	1	444-24667-1
1.5	Screwed plug	1	221-12488-5	24.2	Screw f. KF, 3 x 25	10	206-13796-7
2	Hose 12,5 cm	1	111-35089-2	25	Drain hose	1	444-24310-1
3	Stirring paddle assy.	1	544-31882-1		Repair kit: DC motor		
4	Washer 8,4	1	209-13072-6		including items 7, 13, 14, 15, 27.1, 28, 29		
5	Bearing ring	2	444-24168-1		12 VDC	1	544-36913-1
6	Grooved ball bearing 10 / 26 x 8	1	250-14009-7	25.1	24 VDC	1	544-36913-2
7	O - ring Ø 144 x 4	2	219-13730-7	26	Motor connection	1	664-36862-3
8	Intermediate bottom	1	444-24167-1	27	Woodruff key 3 x 5	1	214-13123-1
9	Shim10 x 16 x 1,2	1	209-13047-5		Rotary shaft seal		
10	Snap ring SW 32	2	211-14100-1	28	BA 10 x 22 x 7	1	220-12231-3
11	Pressure ring Ø 33 x 37 x 13	1	444-24439-1	29	Hydraulic lub. fitting AR 1/4 Z	1	251-14045-9
12	Eccentric	1	444-24170-2		12/24 VDC control p. c. b. *		
13	Hexagon head screw M 6 x 25 C	3	201-13668-3		for industrial applications and		
14	Washer	3	444-24169-1		commercial vehicles		
15	O - ring Ø 6 x 2	3	219-13084-2		Model F	1	236-13856-1
16	Housing up to serial number 9810010249 and 981000063C	1	444-24171-1		Model V00 - V03, old model	1	236-13862-1
	Kit: housing assy, with housing cover an tightening screws	1	544-32191-1		Model V10 - V13, new model	1	236-13891-1
	from serial number 9810010250 and 981000064C	1	444-24666-1		Model V20 - V23, U.S. A.	1	236-13891-2
17	Pump element with assy. piston Ø 5 mm	1	600-26875-2	30	Model H	1	236-13857-1
	piston Ø 6 mm	1	600-26876-2	30.1	12/24 VDC, ADR tractors		
	piston Ø 7 mm	1	600-26877-2	31	Model FADR	1	236-13859-1
	piston Ø 7 mm for chisel paste	1	600-28750-1	32	Model V00 - V03	1	236-13862-1
	adjustable pump element	1	655-26178-1		Model V10 - V13, new model	1	236-13891-1
18	Sealing ring Ø 22,2 x 27 x 1,5	1	306-17813-1	32.1	12/24 VDC, ADR trailer		
19	Check valve Ø 5 mm, assy.	1	504-36071-8	33	Model H	1	236-13857-1
	Check valve Ø 6 mm, assy.	1	504-36071-4		Sealing plug M 33 x 2	1	233-13124-9
	Check valve Ø 7 mm, assy.	1	504-36071-9		O - ring ø 31 x 2	1	219-14138-2
20	Pressure relief valve SVTE - 350-R 1/4 A - D 6, old model	1	624-27158-1		Closure plug		
	SVTE - 350-R 1/4 A - D 6, new model	1	624-28891-1		M 22 x 1,5 x 12	2	303-19285-1
21	Socket 2 (grey) * ** with flat packing and 10 m cable	1	664-36078-9	34	Appliance 1		
	Socket 2 with flat packing and 10 m cable, for ADR-pump	1	664-36862-2		with cable	1	664-36862-4
22	Screw BZ 3 x 10 C	8	206-13796-6		Self-tapping screw 3,9 x 6,5 C	1	206-13725-7
23	Appliance plug 2 ** with cable	1	664-36862-5		Socket 1 (black)* with		
					flat packing and 10 m cable,		
					standard pump	1	664-36078-7
					socket 1, with flat packing and		
					10 m cable, for ADR - pump	1	664-36862-1
					Socket, black	1	236-13277-9
					Flat packing	1	236-13294-3
					Power supply		
					board 230 VAC*	1	544-36961-4

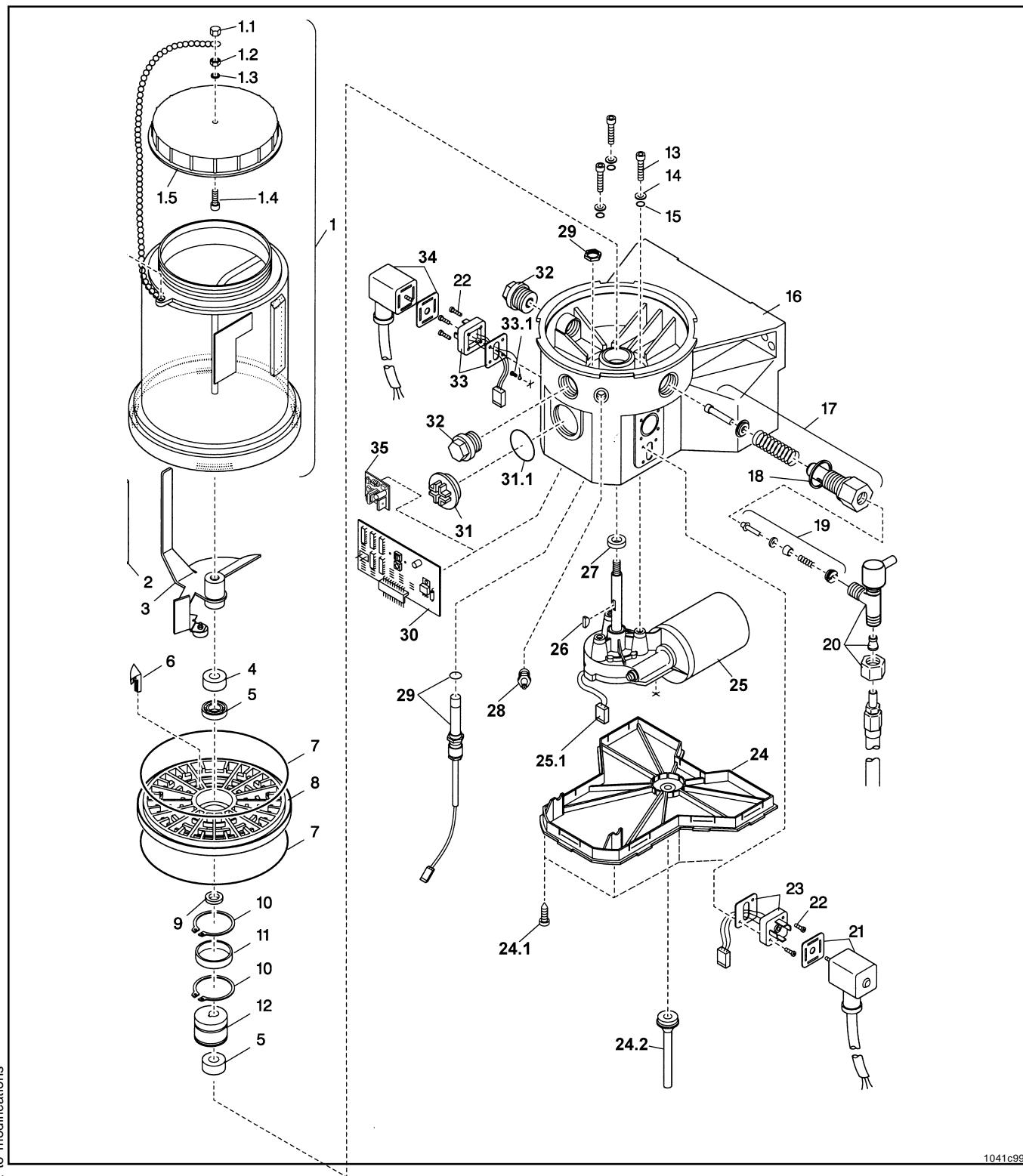
Subject to modifications

\*Alternative parts : See under " Type of Connection...", page 54-59

\*\* Only for pumps with the type of connection 2A1

## Model 203

**2-I Reservoir, Filling from nipple or from Top, with Integrated Control p.c.b.  
of the Models F, F ADR, V00-V03, V10-V13**  
**Types of connection 2A1.10, with Low-Level Control for Grease**



1041c99

# User's Manual

## Components Parts of Central lubrication pump 103 and 203



2.0A-20003-D00

Item	Designation	Qty.	Part no.	Item	Designation	Qty.	Part no.
1	Reservoir 2 XLBO	1	544-32027-1	23	Appliance plug 2** with cable	1	664-36862-5
1.1	Acorn nut M 4 C	1	207-12247-5	24	Housing cover up to serial number 9810010249 and 981000063C from serial number 9810010250	1	444-24172-1
1.2	Hexagon socket head screw M 4 C	1	207-12135-2				
1.3	Washer A 4,3 C	1	209-12146-2				
1.4	Hexagon socket head screw M 4x12 C	1	200-12593-2				
1.5	Screwed plug	1	221-12488-5	24.1	Screw f. KF, 3 x 25	10	206-13796-7
2	Hose 12,5 cm	1	111-35089-2	24.2	Drain hose	1	444-24310-1
3	Stirring paddle assy.	1	544-31947-1	25	Repair kit: DC motor including items 7, 13, 14, 15, 27.1, 28, 29		
4	Bearing ring	2	444-24168-1		12 VDC	1	544-36913-1
5	Grooved ball bearing D 10/26 x 8	1	250-14009-7		24 VDC	1	544-36913-2
6	Control cam	1	444-24212-1	25.1	Motor connection	1	664-36862-3
7	O - ring Ø 144 x 4	2	219-13730-7	26	Woodruff key 3 x 5	1	214-13123-1
8	Intermediate bottom	1	444-24167-1	27	Rotary shaft seal		
9	Shim10 x 16 x 1,2	1	209-13047-5		BA 10 x 22 x 7	1	220-12231-3
10	Snap ring SW 32	2	211-14100-1	28	Hydraulic lub. fitting AR 1/4 Z	1	251-14045-9
11	Pressure ring Ø 33 x 37 x 13	1	444-24439-1	29	Magnetic switch for low-level	1	234-13162-4
12	Eccentric	1	444-24170-2	30	12/24 VDC control p. c. b. * for industrial applications and commercial vehicles		
13	Hexagon socket head screw M 6 x 25 C	3	201-13668-3		Model F	1	236-13856-1
14	Washer	3	444-24169-1		Model V00 - V03, old model	1	236-13862-1
15	O - ring Ø 6 x 2	3	219-13084-2		Model V10 - V13, new model	1	236-13891-1
16	Housing up to serial number 9810010249 and 981000063C	1	444-24171-1		Model V20 - V23, U.S.A	1	236-13891-2
	Kit: housing assy, with housing cover an tightening screws	1	544-32191-1		Model H	1	236-13857-1
	from serial number 9810010250 and 981000064C	1	444-24666-1		12/24 VDC, ADR tractors		
17	Pump element with assy. piston Ø 5 mm	1	600-26875-2		Model FADR	1	236-13859-1
	piston Ø 6 mm	1	600-26876-2		Model V00 - V03	1	236-13862-1
	piston Ø 7 mm	1	600-26877-2		Model V10 - V13	1	236-13891-1
	piston Ø 7 mm for chisel paste	1	600-28750-1	31	12/24 VDC, ADR trailer		
	adjustable pump element	1	655-26178-1	31.1	Model H	1	236-13857-1
18	Sealing ring Ø 22,2 x 27 x 1,5	1	306-17813-1	31	Sealing plug M 33 x 2	1	233-13124-9
19	Check valve Ø 5 mm, assy.	1	504-36071-8	31.1	O - ring ø 31 x 2	1	219-14138-2
	Check valve Ø 6 mm, assy.	1	504-36071-4	32	Closure plug		
	Check valve Ø 7 mm, assy.	1	504-36071-9	32	M 22 x 1,5 x 12	2	303-19285-1
20	Pressure relief valve			33	Appliance1		
	SVTE - 350-R 1/4 A - D 6, old model	1	624-27158-1	33.1	with cable	1	664-36862-4
	SVTE - 350-R 1/4 A - D 6, new model	1	624-28894-1	34	Self-tapping screw 3,9 x 6,5 C	1	206-13725-7
21	Socket 2 (grey) * **			34	Socket 1 (black)* with flat packing and 10 m cable, standard pump	1	664-36078-7
	with flat packing and 10 m cable	1	664-36078-9		socket 1, with flat packing and 10 m cable, for ADR - pump	1	664-36862-1
	Socket 2				Socket, black	1	236-13277-9
	with flat packing and 10 m cable, for ADR-pump	1	664-36862-2		Flat packing	1	236-13294-3
22	Screw BZ 3 x 10 C	8	206-13796-6	35	Power supply board 230 VAC*	1	544-36961-4

\*Alternative parts : See under " Type of Connection " , page 54-59

\*\* Only for pumps with type of connection 2A1

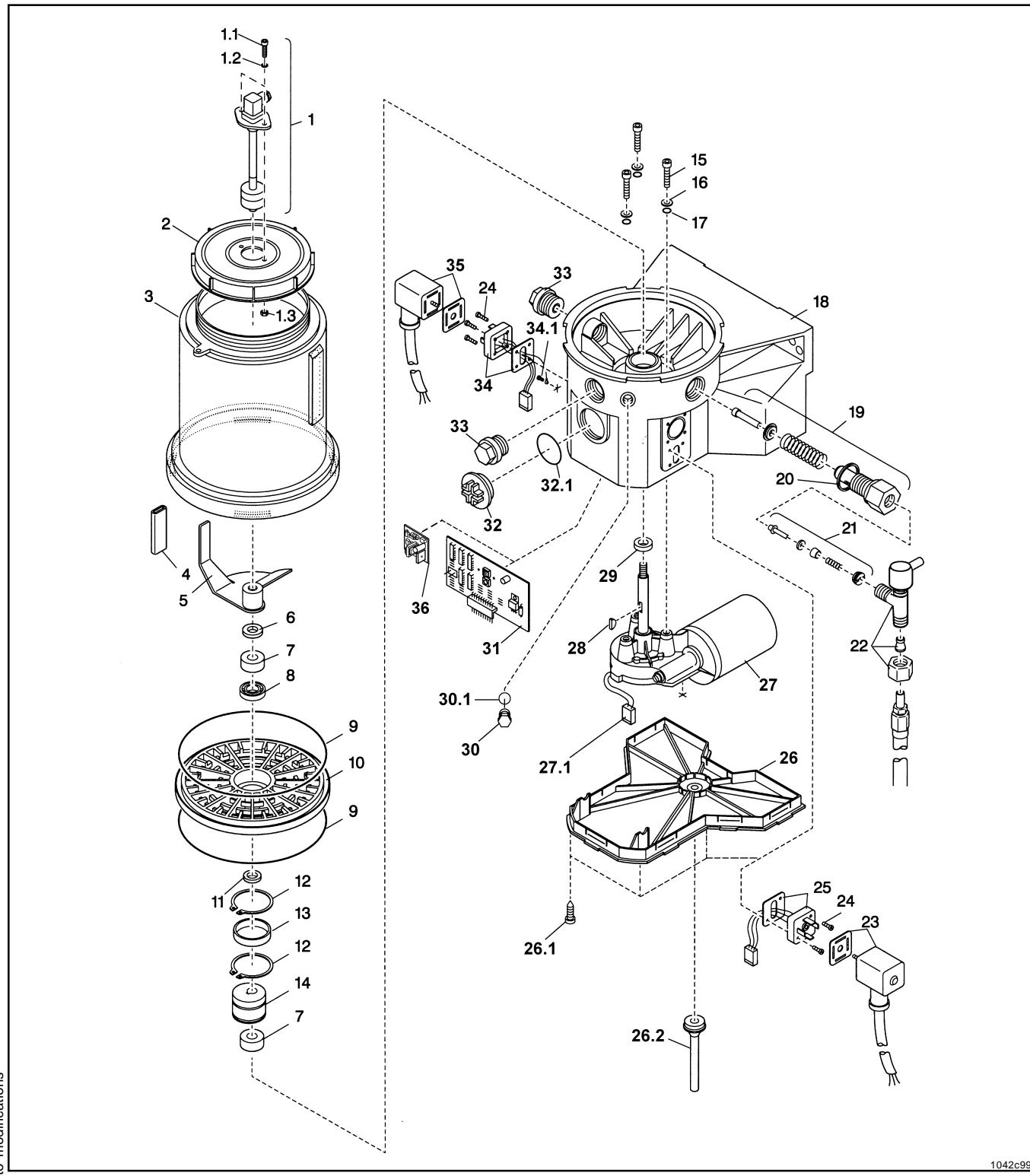
Arrow: direction of rotation

LINCOLN-Logo

Page 29 of 60

### Model 203

**2-I Reservoir, Filling from Top, with Integrated Control p.c.b.  
of the Models F, V00-V03, V10-V13  
Types of Connection 1A1.10 and/or 2A1.10, with Low-Level Control for Oil**



# User's Manual

## Components Parts of Central lubrication pump 103 and 203



2.0A-20003-D00

Item	Designation	Qty.	Part no.	Item	Designation	Qty.	Part no.
1	Low-level control (magnetic floating switch)	1	444-24284-1	25	Appliance plug 2** with cable	1	664-36862-5
1.1	Hexagon socket head screw M 6x20 C	2	201-12018-5	26	Housing cover up to serial number 9810010249	1	444-24172-1
1.2	Washer A 6,4 C	2	209-13011-5		and 981000063C	1	444-24667-1
1.3	Hexagon nut M 6 C	2	207-12135-5		from serial number 9810010250	1	206-13796-7
2	Screwed plug	1	444-24285-1		and 981000064C	1	444-24310-1
3	Reservoir 2XNBO	1	444-24211-1	26.1	Screw f. KF, 3 x 25	10	206-13796-7
4	Hose 3 cm	1	111-35089-2	26.2	Drain hose	1	444-24310-1
5	Stirring paddle assy.	1	544-31882-1	27	Repair kit: DC motor including items 7, 13, 14, 15, 27.1, 28, 29	1	544-36913-1
6	Washer 8,4	1	209-13072-6		12 VDC	1	544-36913-2
7	Bearing ring	2	444-24168-1		24 VDC	1	664-36862-3
8	Grooved ball bearing D 10/26 x 8	1	250-14009-7	27.1	Motor connection	1	214-13123-1
9	O - ring Ø 144x4	2	219-13730-7	28	Woodruff key 3 x 5	1	220-12231-3
10	Intermediate bottom	1	444-24167-1	29	Rotary shaft seal	1	251-14045-9
11	Shim 10 x 16 x 1,2	1	209-13047-5	30	BA 10 x 22 x 7	1	219-12223-4
12	Snap ring SW 32	2	211-14100-1	30.1	Closure plug R 1/4 Z x 82	1	236-13856-1
13	Pressure ring Ø 33 x 37 x 13	1	444-24439-1	31	O - ring Ø 11 x 2	1	236-13862-1
14	Eccentric	1	444-24170-2		12/24 VDC control p. c. b. *	1	236-13891-1
15	Hexagon socket head screw M 6x25 C	3	201-13668-3		for industrial applications and commercial vehicles	1	233-13124-9
16	Washer	3	444-24169-1		Model F	1	219-14138-2
17	O - ring Ø 6 x 2	3	219-13084-2		Model V00 - V03, old model	1	236-13862-1
18	Housing up to serial number 9810010249 and 981000063C Kit: housing assy, with housing cover an tightening screws from serial number 9810010250 and 981000064C	1	444-24171-1	32	Model V10 - V13, new model	1	236-13891-1
				32.1	Sealing plug M 33 x 2	1	303-19285-1
				33	O - ring Ø 31 x 2	1	664-36078-7
				34	Closure plug M 22 x 1,5 x 12	2	664-36862-4
19	Pump element with assy. piston Ø 5 mm	1	600-26875-2	34.1	Appliance1 with cable	1	206-13725-7
	piston Ø 6 mm	1	600-26876-2	35	Self-tapping screw 3,9 x 6,5 C	1	664-36078-7
	piston Ø 7 mm	1	600-26877-2		Socket 1 (black)* with flat packing and 10 m cable,	1	664-36862-1
	adjustable pump element	1	655-26178-1		socket 1, with flat packing and 10 m cable, for ADR - pump	1	236-13277-9
20	Sealing ring Ø 22,2 x 27 x 1,5	1	306-17813-1		Socket, black	1	236-13294-3
21	Check valve Ø 5 mm, assy.	1	504-36071-8		(without cable)	1	544-36961-4
	Check valve Ø 6 mm, assy.	1	504-36071-4		Flat packing	1	810-55106-1
	Check valve Ø 7 mm, assy.	1	504-36071-9	36	Power supply board 230 VAC*	1	810-55087-1
22	Pressure relief valve SVTE - 350-R 1/4 A - D 6, old model	1	624-27158-1		Arrow: direction of rotation	1	236-13294-3
	SVTE - 350-R 1/4 A - D 6, new model	1	624-28894-1		LINCOLN-Logo	1	544-36961-4
23	Socket 2 (grey) * ** with flat packing and 10 m cable	1	664-36078-9			1	810-55106-1
	Socket 2 with flat packing and 10 m cable, for ADR-pump	1	664-36862-2			1	810-55087-1
24	Screw BZ 3 x 10 C	8	206-13796-6				

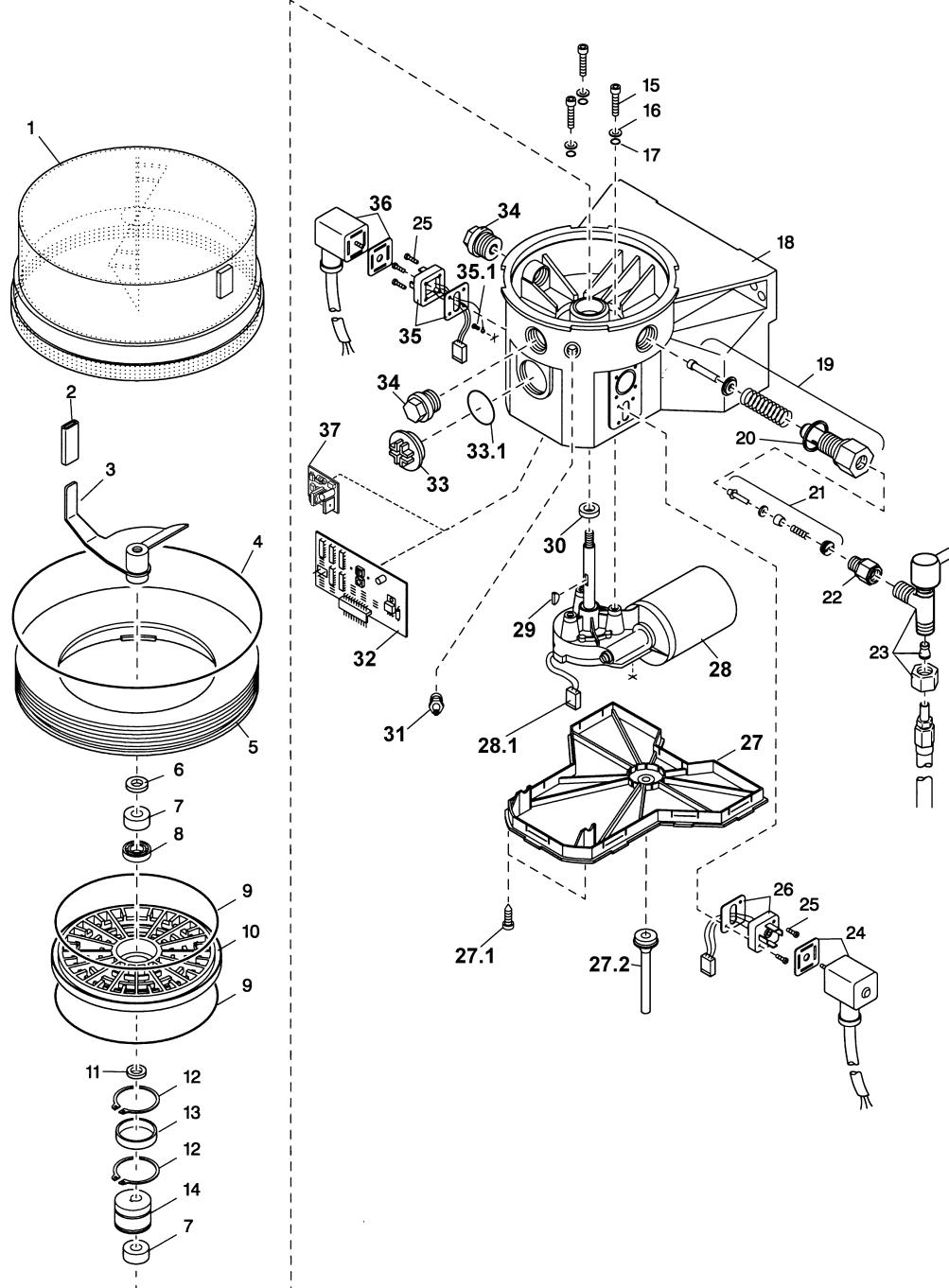
\*Alternative parts : See under " Type of Connection...", page 54-59

\*\*Only for the pumps with the type of connection 2A1

Note: Connection 2A1.10 (pos. 23,24,25) for an additional lubrication only.

**Model 203**

**2-I Flat-Type Reservoirs with Integrated Control p.c.b.  
of the Models F, F ADR, V00-V03, V10-V13 and H  
Types of Connection 1A1.10 and/or 2A1.10**



# User's Manual

## Components Parts of Central lubrication pump 103 and 203



2.0A-20003-D00

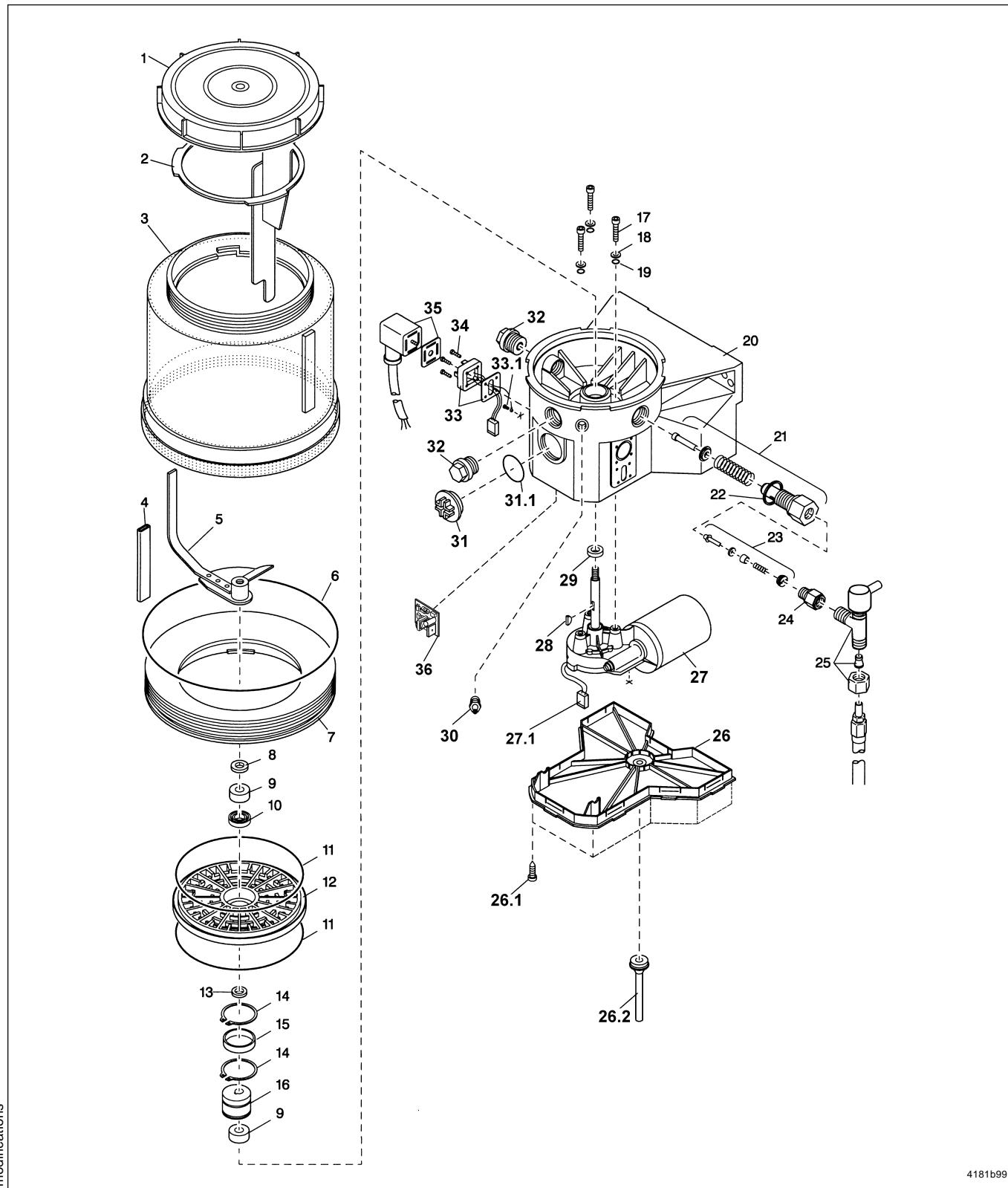
Item	Designation	Qty.	Part no.	Item	Designation	Qty.	Part no.
1	Reservoir 2XNFL	1	544-31991-1	27	Housing cover		
2	Hose 3 cm	1	111-35089-2		up to serial number 9810010249		
3	Stirring paddle assy.	1	544-31929-1		and 981000063C	1	444-24172-1
4	O-ring, Ø 210 x 5	1	219-13730-9		from serial number 9810010250		
5	Adapter ring	1	444-24235-1		and 981000064C	1	444-24667-1
6	Washer 8,4	1	209-13072-6	27.1	Screw f. KF, 3 x 25	10	206-13796-7
7	Bearing ring	2	444-24168-1	27.2	Drain hose	1	444-24310-1
8	Grooved ball bearing D 10/26 x 8	1	250-14009-7	28	Repaire kit: DC motor		
9	O - ring Ø 144 x 4	2	219-13730-7		including items 7, 13, 14, 15, 27.1, 28, 29		
10	Intermediate bottom	1	444-24167-1		12 VDC	1	544-36913-1
11	Shim 10 x 16 x 1,2	1	209-13047-5		24 VDC	1	544-36913-2
12	Snapping SW 32	2	211-14100-1	28.1	Motor connection	1	664-36862-3
13	Pressure ring Ø 33 x 37 x 13	1	444-24439-1	29	Woodruff key 3 x 5	1	214-13123-1
14	Eccentric	1	444-24170-2	30	Rotary shaft seal		
15	Hexagon socket head screw M 6 x 25 C	3	201-13668-3	31	BA 10 x 22 x 7	1	220-12231-3
16	Washer	3	444-24169-1	32	Hydraulic lub. fitting AR 1/4 Z	1	251-14045-9
17	O - ring Ø 6 x 2	3	219-13084-2		12/24 VDC control p. c. b. *		
18	Housing up to serial number 9810010249 and 981000063C Kit: housing assy, with housing cover an tightening screws from serial number 9810010250 and 981000064C	1	444-24171-1		for industrial applications and commercial vehicles		
19	Pump element with assy. piston Ø 5 mm	1	600-26875-2		Model F	1	236-13856-1
	piston Ø 6 mm	1	600-26876-2		Model V00 - V03	1	236-13862-1
	piston Ø 7 mm	1	600-26877-2		Model V10 - V13, new model	1	236-13891-1
	adjustable pump element	1	655-26178-1		Model V20 - V23, U.S.A.	1	236-13891-2
20	Sealing ring 22,2 x 27 x 1,5	1	306-17813-1	33	Model H	1	236-13857-1
21	Check valve Ø 5 mm, assy.	1	504-36071-8	33.1	12/24 VDC, ADR tractors	1	236-13859-1
	Check valve Ø 6 mm, assy.	1	504-36071-4	34	Model FADR	1	236-13862-1
	Check valve Ø 7 mm, assy.	1	504-36071-9		Model V00 - V03	1	236-13891-1
22	Nipple S 2520-1/4-1/4-25	1	226-14105-5	35	Model V10 - V13, new model	1	236-13891-2
23	Pressure relief valve SVTE - 350-R 1/4 A - D 6, old model	1	624-27158-1	35.1	Model V20 - V23, U.S.A.	1	236-13857-1
	SVTE - 350-R 1/4 A - D 6, new model	1	624-28894-1	36	Model H	1	236-13859-1
24	Socket 2 (grey) *				Sealing plug M 33 x 2	1	233-13124-9
	with flat packing and 10 m cable	1	664-36078-9		O - ring Ø 31 x 2	1	219-14138-2
	Socket 2				Closure plug		
	with flat packing and 10 m cable,				M 22 x 1,5 x 12	2	303-19285-1
	for ADR-pump				Appliance1		
25	Screw BZ 3 x 10 C	8	206-13796-6	37	with cable	1	664-36862-4
26	Appliance inlet 2 with cable	1	664-36862-5		Self - tapping screw 3,9 x 6,5 C	1	206-13725-7
					Socket 1 (black)* with		
					flat packing and 10 m cable,	1	664-36078-7
					socket 1, with flat packing and		
					10 m cable, for ADR - pump	1	664-36862-1
					Socket, black	1	236-13277-9
					Flat packing	1	236-13294-3
					Power supply		
					board 230 VAC*	1	544-36961-4
					Arrow: direction of rotation	1	810-55106-1
					LINCOLN-Logo	1	810-55087-1

Subject to modifications

\*Alternative parts: See under " Type of Connection...", page 54-59

**Model 203**

**4 I Reservoir, Filling from nipple or from Top, without Control p.c.b.  
Type of Connection 1A1.10**



# User's Manual

## Components Parts of Central lubrication pump 103 and 203

**LINCOLN**  
INDUSTRIAL®

2.0A-20003-D00

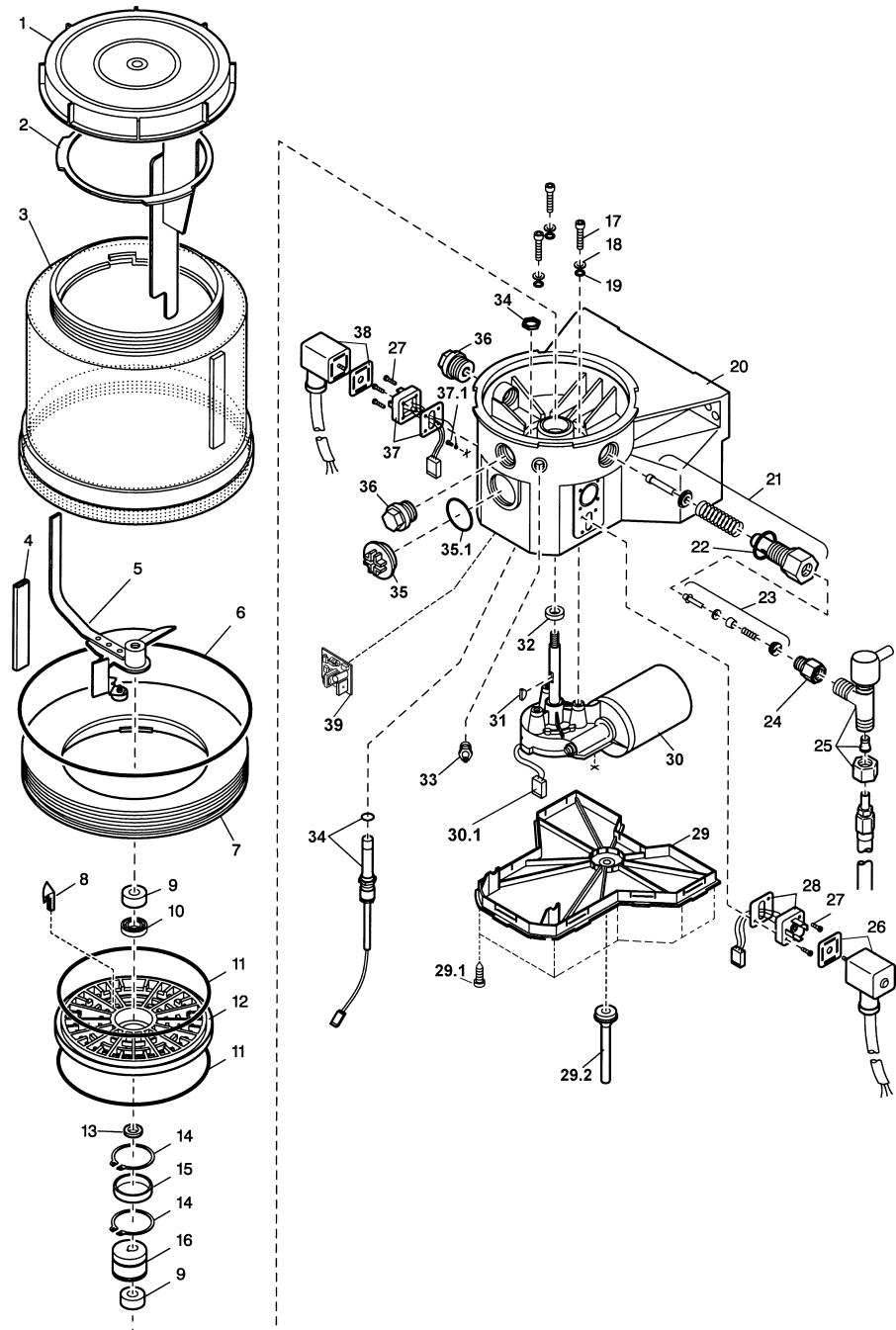
Item	Designation	Qty.	Part no.	Item	Designation	Qty.	Part no.	
1	Reservoir cover	1	544-31192-1	26	Housing cover up to serial number 9810010249			
2	Fixed paddle assy.	1	544-31948-1		and 981000063C	1	444-24172-1	
3	Reservoir 4XNBO/4YNBO	1	444-31998-1		from serial number 9810010250			
4	Hose 10 cm	1	111-35089-2		and 981000064C	1	444-24667-1	
5	Stirring paddle assy.	1	544-31928-1	26.1	Screw f. KF, 3 x 25	10	206-13796-7	
6	O-ring, Ø 210 x 5	1	219-13730-9	26.2	Drain hose	1	444-24310-1	
7	Adapter ring	1	444-24235-1	27	Repair kit: DC motor			
8	Washer 8,4	1	209-13072-6		including items 11, 17, 18, 19, 32.1, 33, 34			
9	Bearing ring	2	444-24168-1		12 VDC	1	544-36913-1	
10	Grooved ball bearing D 10/26 x 8	1	250-14009-7		24 VDC	1	544-36913-2	
11	O - ring Ø 144 x 4	2	219-13730-7	27.1	Motor connection	1	664-36862-3	
12	Intermediate bottom	1	444-24167-1	28	Woodruff key 3 x 5	1	214-13123-1	
13	Shim 10 x 16 x 1,2	1	209-13047-5	29	Rotary shaft seal			
14	Snap ring SW 32	2	211-14100-1		BA 10 x 22 x 7	1	220-12231-3	
15	Pressure ring Ø 33 x 37 x 13	1	444-24439-1	30	Hydraulic lub. fitting AR 1/4 Z	1	251-14045-9	
16	Eccentric	1	444-24170-2	31	Sealing plug M 33 x 2	1	233-13124-9	
17	Hexagon socket head screw M 6x25 C	3	201-13668-3	31.1	O - ring Ø 31 x 2	1	219-14138-2	
18	Washer	3	444-24169-1	32	Closure plug			
19	O - ring Ø 6 x 2	3	219-13084-2		M 22 x 1,5 x 12	2	303-19285-1	
20	Housing up to serial number 9810010249 and 981000063C Kit: housing assy, with housing cover an tightening screws from serial number 9810010250 and 981000064C	1	444-24171-1	33	Appliance plug 1 with cable	1	664-36862-4	
				33.1	Self - tapping screw 3,9 x 6,5 C	1	206-13725-7	
				34	Screw BZ 3 x 10 C	8	206-13796-6	
			1	544-32191-1	35	Socket 1 (black)* with flat packing and 10 m cable,	1	664-36078-7
							1	236-13277-9
			1	444-24666-1		Socket, black	1	236-13294-3
21	Pump element with assy. piston Ø 5 mm	1	600-26875-2	36	Flat packing	1	810-55106-1	
	piston Ø 6 mm	1	600-26876-2		Power supply board 230 VAC*	1	810-55087-1	
	piston Ø 7 mm	1	600-26877-2					
	piston Ø 7 mm for chisel paste	1	600-28750-1					
	adjustable pump element	1	655-26178-1		Arrow: direction of rotation	1		
22	Sealing ring ø 22,2 x 27 x 1,5	1	306-17813-1		LINCOLN-Logo	1		
23	Check valve Ø 5 mm, assy.	1	504-36071-8					
	Check valve Ø 6 mm, assy.	1	504-36071-4					
	Check valve Ø 7 mm, assy.	1	504-36071-9					
24	Nipple S 2520-1/4-1/4-25	1	226-14105-5					
25	Pressure relief valve SVTE - 350-R 1/4 A - D 6, old model	1	624-27158-1					
	SVTE - 350-R 1/4 A - D 6, new model	1	624-28894-1					

Subject to modifications

\*Alternative parts : See under " Type of Connection...", page 54-59

## Model 203

4 I Reservoir, Filling from nipple or from Top, without Control p.c.b.  
Type of Connection 2A1.10 with Low-Level Control



4182b99

# User's Manual

## Components Parts of Central lubrication pump 103 and 203



2.0A-20003-D00

Item	Designation	Qty.	Part no.	Item	Designation	Qty.	Part no.
1	Reservoir cover	1	544-31192-1	29	Housing cover		
2	Fixed paddle assy.	1	544-31948-1		up to serial number 9810010249		
3	Reservoir 4XNBO/4YNBO	1	544-31998-1		and 981000063C	1	444-24172-1
4	Hose 10 cm	1	111-35089-2		from serial number 9810010250		
5	Stirring paddle assy.	1	544-31954-1		and 981000064C	1	444-24667-1
6	O-ring, Ø 210 x 5	1	219-13730-9	29.1	Screw f. KF, 3 x 25	10	206-13796-7
7	Adapter ring	1	444-24235-1	29.2	Drain hose	1	444-24310-1
8	Control cam	1	444-24212-1	30	Repair kit: DC motor		
9	Bearing ring	2	444-24168-1		including items 11, 17, 18, 19, 32.1, 33, 34		
10	Grooved ball bearing D 10/26 x 8	1	250-14009-7		12 VDC	1	544-36913-1
11	O - ring Ø 144 x 4	2	219-13730-7		24 VDC	1	544-36913-2
12	Intermediate bottom	1	444-24167-1	30.1	Motor connection	1	664-36862-3
13	Shim 10 x 16 x 1,2	1	209-13047-5	31	Woodruff key 3 x 5	1	214-13123-1
14	Snap ring SW 32	2	211-14100-1	32	Rotary shaft seal		
15	Pressure ring Ø 33 x 37 x 13	1	444-24439-1		BA 10 x 22 x 7	1	220-12231-3
16	Eccentric	1	444-24170-2	33	Hydraulic lub. fitting AR 1/4 Z	1	251-14045-9
17	Hexagon socket head screw M 6 x 25 C	3	201-13668-3	34	Magnetic switch for low-level	1	234-13162-5
18	Washer	3	444-24169-1	35	Sealing plug M 33 x 2	1	233-13124-9
19	O - ring Ø 6 x 2	3	219-13084-2	35.1	O - ring Ø 31 x 2	1	219-14138-2
20	Housing up to serial number 9810010249 and 981000063C	1	444-24171-1	36	Closure plug		
	Kit: housing assy, with housing cover an tightening screws from serial number 9810010250 and 981000064C	1	544-32191-1	37	M 22 x 1,5 x 12	2	303-19285-1
				37.1	Appliance plug 1 with cable	1	664-36862-4
21	Pump element with assy. piston Ø 5 mm	1	600-26875-2	38	Self - tapping screw 3,9 x 6,5 C	1	206-13725-7
	piston Ø 6 mm	1	600-26876-2		Socket 1 (black)* with flat packing and 10 m cable,	1	664-36078-7
	piston Ø 7 mm	1	600-26877-2		Socket, black	1	236-13277-9
	piston Ø 7 mm for chisel paste	1	600-28750-1		Flat packing	1	236-13294-3
	adjustable pump element	1	655-26178-1		Power supply board 230 VAC*	1	544-36961-4
22	Sealing ring ø 22,2 x 27 x 1,5	1	306-17813-1		Arrow: direction of rotation	1	810-55106-1
23	Check valve Ø 5 mm, assy.	1	504-36071-8		LINCOLN-Logo	1	810-55087-1
	Check valve Ø 6 mm, assy.	1	504-36071-4				
	Check valve Ø 7 mm, assy.	1	504-36071-9				
24	Nipple S 2520-1/4-1/4-25	1	226-14105-5				
25	Pressure relief valve SVTE - 350-R 1/4 A - D 6, old model	1	624-27158-1				
	SVTE - 350-R 1/4 A - D 6, new model	1	624-28894-1				
26	Socket 2 (grey) * **						
	with flat packing and 10 m cable	1	664-36078-9				
	Socket 2						
27	Screw BZ 3 x 10 C	8	206-13796-6				
28	Appliance plug 2 with cable**	1	664-36862-5				

Subject to modifications

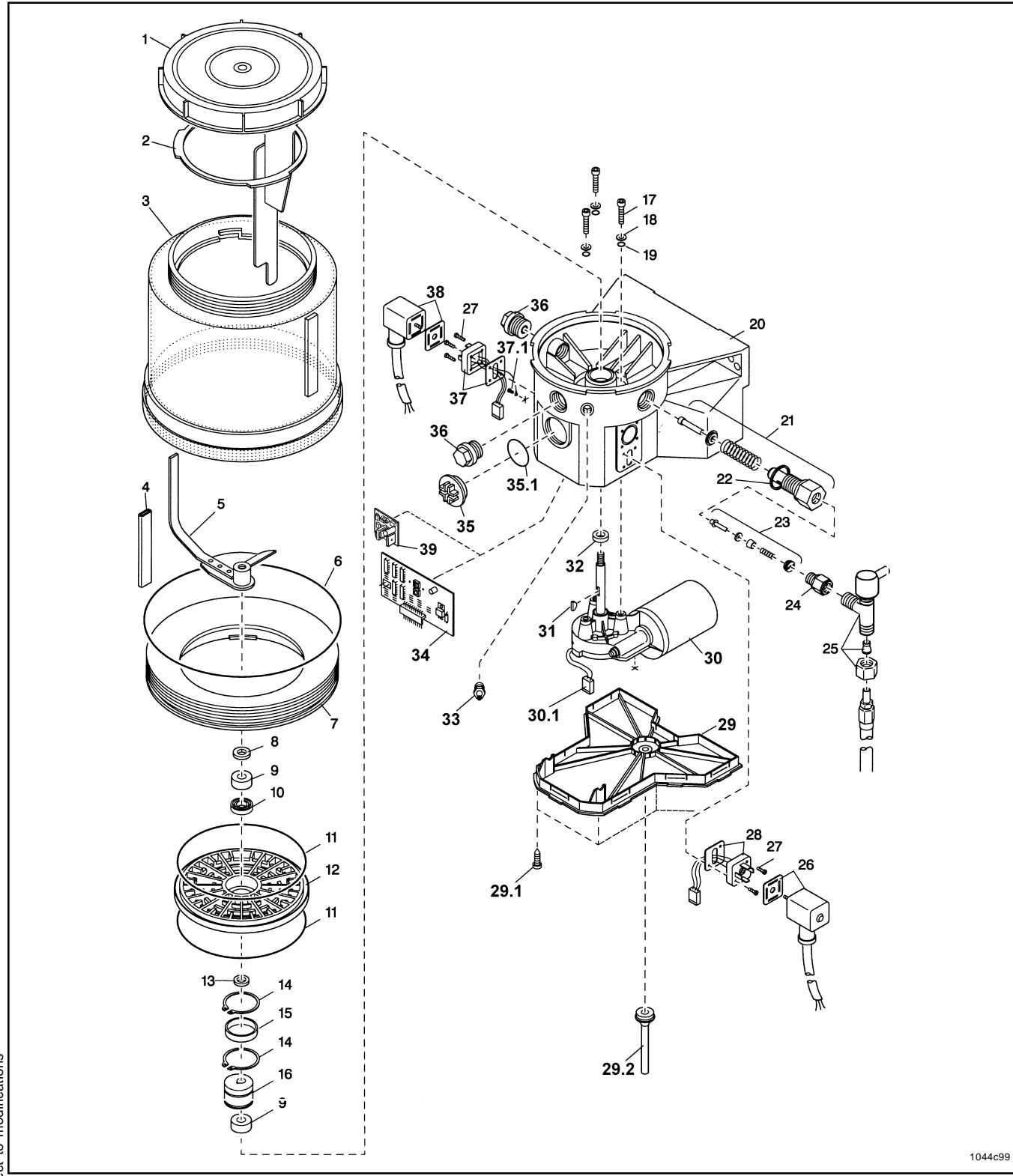
\*Alternative parts : See under " Type of Connection...", page 54-59

\*\* Only for pumps with the type of connection 2A1

### Model 203

4-I Reservoir, Filling from nipple or from Top, with Integrated Control p.c.b.  
of the Models F, F ADR, V00-V03, V10-V13 and H

Types of Connection 1A1.10 and/or 2A1.10



1044c99

# User's Manual

## Components Parts of Central lubrication pump 103 and 203



2.0A-20003-D00

Item	Designation	Qty.	Part no.	Item	Designation	Qty.	Part no.
1	Reservoir cover	1	544-31192-1	29	Housing cover		
2	Fixed paddle assy.	1	544-31948-1		up to serial number 9810010249		
3	Reservoir 4XNBO/4YNBO	1	544-31998-1		and 981000063C	1	444-24172-1
4	Hose 10 cm	1	111-35089-2		from serial number 9810010250		
5	Stirring paddle assy.	1	544-31928-1		and 981000064C	1	444-24667-1
6	O-ring, Ø 210 x 5	1	219-13730-9	29.1	Screw f. KF, 3 x 25	10	206-13796-7
7	Adapter ring	1	444-24235-1	29.2	Drain hose	1	444-24310-1
8	Washer 8,4	1	209-13072-6	30	Repair kit: DC motor		
9	Bearing ring	2	444-24168-1		including items 11, 17, 18, 19, 32.1, 33, 34		
10	Grooved ball bearing D 10/26 x 8	1	250-14009-7		12 VDC	1	544-36913-1
11	O - ring Ø 144 x 4	2	219-13730-7		24 VDC	1	544-36913-2
12	Intermediate bottom	1	444-24167-1	30.1	Motor connection	1	664-36862-3
13	Shim 10 x 16 x 1,2	1	209-13047-5	31	Woodruff key 3 x 5	1	214-13123-1
14	Snap ring SW 32	2	211-14100-1	32	Rotary shaft seal		
15	Pressure ring Ø 33 x 37 x 13	1	444-24439-1		BA 10 x 22 x 7	1	220-12231-3
16	Eccentric	1	444-24170-2	33	Hydraulic lub. fitting AR 1/4 Z	1	251-14045-9
17	Hexagon socket head screw M 6x25 C	3	201-13668-3	34	12/24 VDC control p. c. b. *		
18	Washer	3	444-24169-1		for industrial applications and commercial vehicles		
19	O - ring Ø 6 x 2	3	219-13084-2		Model F	1	236-13856-1
20	Housing up to serial number 9810010249 and 981000063C	1	444-24171-1		Model V00 - V03	1	236-13862-1
	Kit: housing assy, with housing cover an tightening screws from serial number 9810010250 and 981000064C				Model V10 - V13, new model	1	236-13891-1
					Model V20 - V23, U.S.A.	1	236-13891-2
21	Pump element with assy. piston Ø 5 mm	1	600-26875-2		Model H	1	236-13857-1
	piston Ø 6 mm	1	600-26876-2		12/24 VDC, ADR tractors		
	piston Ø 7 mm	1	600-26877-2	35	Model FADR	1	236-13859-1
	piston Ø 7 mm for chisel paste	1	600-28750-1	35.1	Model V00 - V03, old model	1	236-13862-1
	adjustable pump element	1	655-26178-1	36	Model V10 - V13, new model	1	236-13891-1
22	Sealing ring ø 22,2 x 27 x 1,5	1	306-17813-1	37	12/24 VDC, ADR trailer		
23	Check valve Ø 5 mm, assy.	1	504-36071-8		Model H	1	236-13857-1
	Check valve Ø 6 mm, assy.	1	504-36071-4	37.1	Sealing plug M 33 x 2	1	233-13124-9
	Check valve Ø 7 mm, assy.	1	504-36071-9	38	O - ring Ø 31 x 2	1	219-14138-2
24	Nipple S 2520-1/4-1/4-25	1	226-14105-5		Closure plug		
25	Pressure relief valve SVTE - 350-R 1/4 A - D 6, old model	1	624-27158-1		M 22 x 1,5 x 12	2	303-19285-1
	SVTE - 350-R 1/4 A - D 6, new model	1	624-28894-1		Appliance plug 1		
26	Socket 2 (grey) * **				with cable	1	664-36862-4
	with flat packing and 10 m cable	1	664-36078-9	39	Self - tapping screw 3,9 x 6,5 C	1	206-13725-7
	Socket 2				Socket 1 (black)* with		
	with flat packing and 10 m cable, for ADR-pump	1	664-36862-2		flat packing and 10 m cable,	1	664-36078-7
27	Screw BZ 3 x 10 C	8	206-13796-6		socket 1, with flat packing and		
28	Appliance plug 2** with cable	1	664-36862-5		10 m cable, for ADR - pump	1	664-36862-1
					Socket, black	1	236-13277-9
					Flat packing	1	236-13294-3
					Power supply board 230 VAC*	1	544-36961-4
					Arrow: direction of rotation	1	810-55106-1
					LINCOLN-Logo	1	810-55087-1

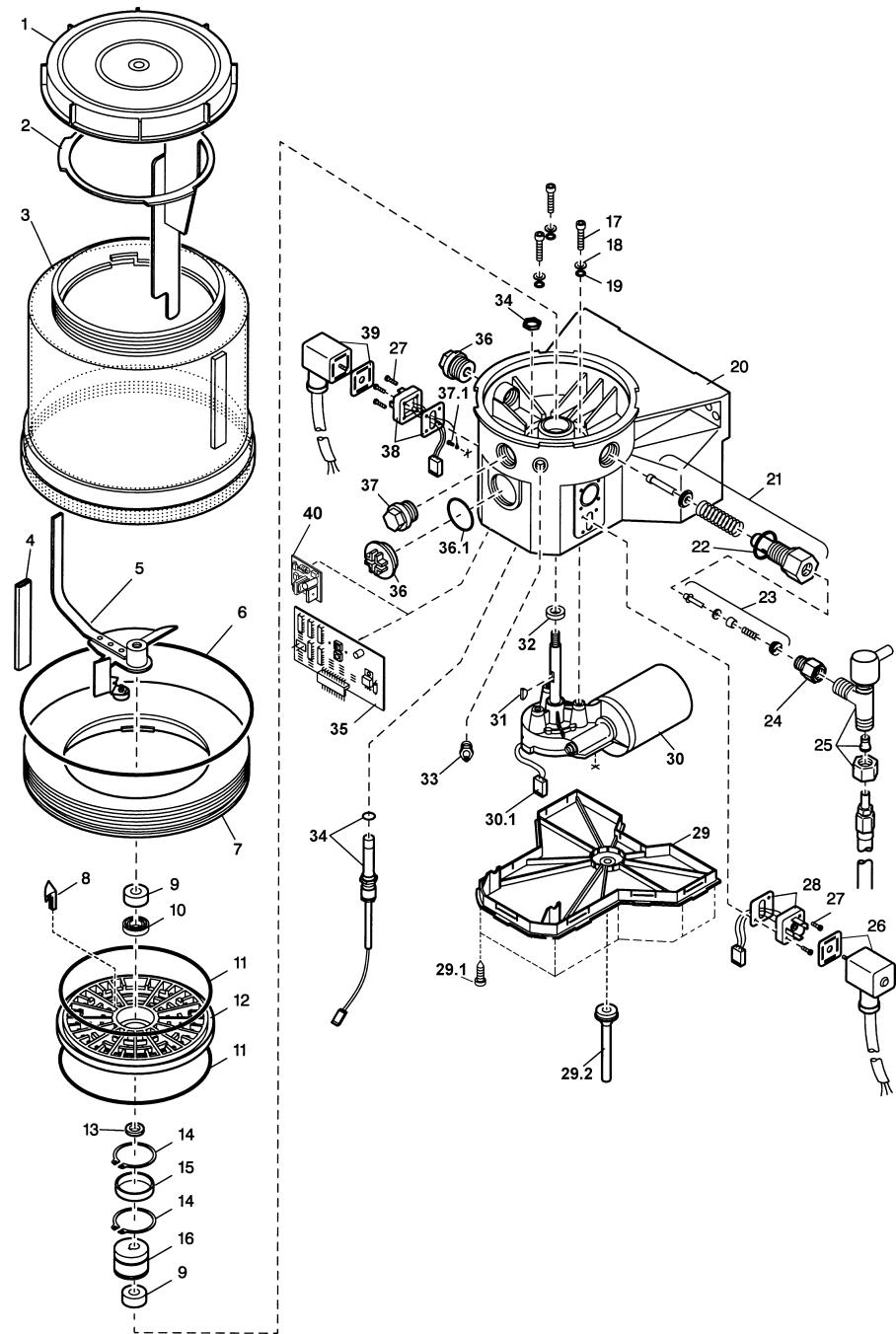
Subject to modifications

\*Alternative parts : See under " Type of Connection...", page 54-59

\*\* Only for pumps with the type of connection 2A1

## Model 203

4-I Reservoir, Filling from nipple or from Top, with Integrated Control p.c.b.  
of the Models F, F ADR, V00-V03, V10-V13 and H  
Types of Connection 2A1.10, with Low-Level Control for Grease



# User's Manual

## Components Parts of Central lubrication pump 103 and 203



2.0A-20003-D00

Item	Designation	Qty.	Part no.	Item	Designation	Qty.	Part no.
1	Reservoir cover	1	544-31192-1	29	Housing cover		
2	Fixed paddle assy.	1	544-31948-1		up to serial number 9810010249		
3	Reservoir 4XNBO/4YNBO	1	544-31998-1		and 981000063C	1	444-24172-1
4	Hose 10 cm	1	111-35089-2		from serial number 9810010250		
5	Stirring paddle assy.	1	544-31994-1		and 981000064C	1	444-24667-1
6	O-ring, Ø 210 x 5	1	219-13730-9	29.1	Screw f. KF, 3 x 25	10	206-13796-7
7	Adapter ring	1	444-24235-1	29.2	Drain hose	1	444-24310-1
8	Control cam	1	444-24212-1	30	Repair kit: DC motor		
9	Bearing ring	2	444-24168-1		including items 11, 17, 18, 19, 32.1, 33, 34		
10	Grooved ball bearing D 10/26 x 8	1	250-14009-7		12 VDC	1	544-36913-1
11	O - ring Ø 144 x 4	2	219-13730-7		24 VDC	1	544-36913-2
12	Intermediate bottom	1	444-24167-1	30.1	Motor connection	1	664-36862-3
13	Shim 10 x 16 x 1,2	1	209-13047-5	31	Woodruff key 3 x 5	1	214-13123-1
14	Snap ring SW 32	2	211-14100-1	32	Rotary shaft seal		
15	Pressure ring Ø 33 x 37 x 13	1	444-24439-1		BA 10 x 22 x 7	1	220-12231-3
16	Eccentric	1	444-24170-2	33	Hydraulic lub. fitting AR 1/4 Z	1	251-14045-9
17	Hexagon socket head screw M 6x25 C	3	201-13668-3	34	Magnetic switch for low-level	1	234-13162-4
18	Washer	3	444-24169-1	35	12/24 VDC control p. c. b. *		
19	O - ring Ø 6 x 2	3	219-13084-2		for industrial applications and commercial vehicles		
20	Housing up to serial number 9810010249 and 981000063C	1	444-24171-1		Model F	1	236-13856-1
	Kit: housing assy, with housing cover an tightening screws from serial number 9810010250 and 981000064C	1	544-32191-1		Model V00 - V03, old model	1	236-13862-1
		1	444-24666-1	36	Model V00 - V03, new model	1	236-13891-1
21	Pump element with assy. piston Ø 5 mm	1	600-26875-2	36.1	Model V00 - V03, U.S.A	1	236-13891-2
	piston Ø 6 mm	1	600-26876-2	37	Model H	1	236-13857-1
	piston Ø 7 mm	1	600-26877-2	38	Sealing plug M 33 x 2	1	233-13124-9
	adjustable pump element	1	655-26178-1	37	O - ring Ø 31 x 2	1	219-14138-2
22	Sealing ring ø 22,2 x 27 x 1,5	1	306-17813-1	38.1	Closure plug		
23	Check valve Ø 5 mm, assy.	1	504-36071-8	39	M 22 x 1,5 x 12	2	303-19285-1
	Check valve Ø 6 mm, assy.	1	504-36071-4		Appliance plug 1		
	Check valve Ø 7 mm, assy.	1	504-36071-9		with cable	1	664-36862-4
24	Nipple S 2520-1/4-1/4-25	1	226-14105-5		Self-tapping screw 3,9 x 6,5 C	1	206-13725-7
25	Pressure relief valve SVTE - 350-R 1/4 A - D 6, old model	1	624-27158-1		Socket 1 (black)* with		
	SVTE - 350-R 1/4 A - D 6, new model	1	624-28894-1	40	flat packing and 10 m cable,		
26	Socket 2 (grey) * **	1	664-36078-9		socket 1, with flat packing and		
	with flat packing and 10 m cable	1			10 m cable, for ADR - pump	1	664-36862-1
	Socket 2	1			Socket, black	1	236-13277-9
	with flat packing and 10 m cable, for ADR-pump	1			Flat packing	1	236-13294-3
27	Screw BZ 3 x 10 C	8	206-13796-6		Power supply		
28	Appliance plug 2** with cable	1	664-36862-5		board 230 VAC*	1	544-36961-4
					Arrow: direction of rotation	1	810-55106-1
					LINCOLN-Logo	1	810-55087-1

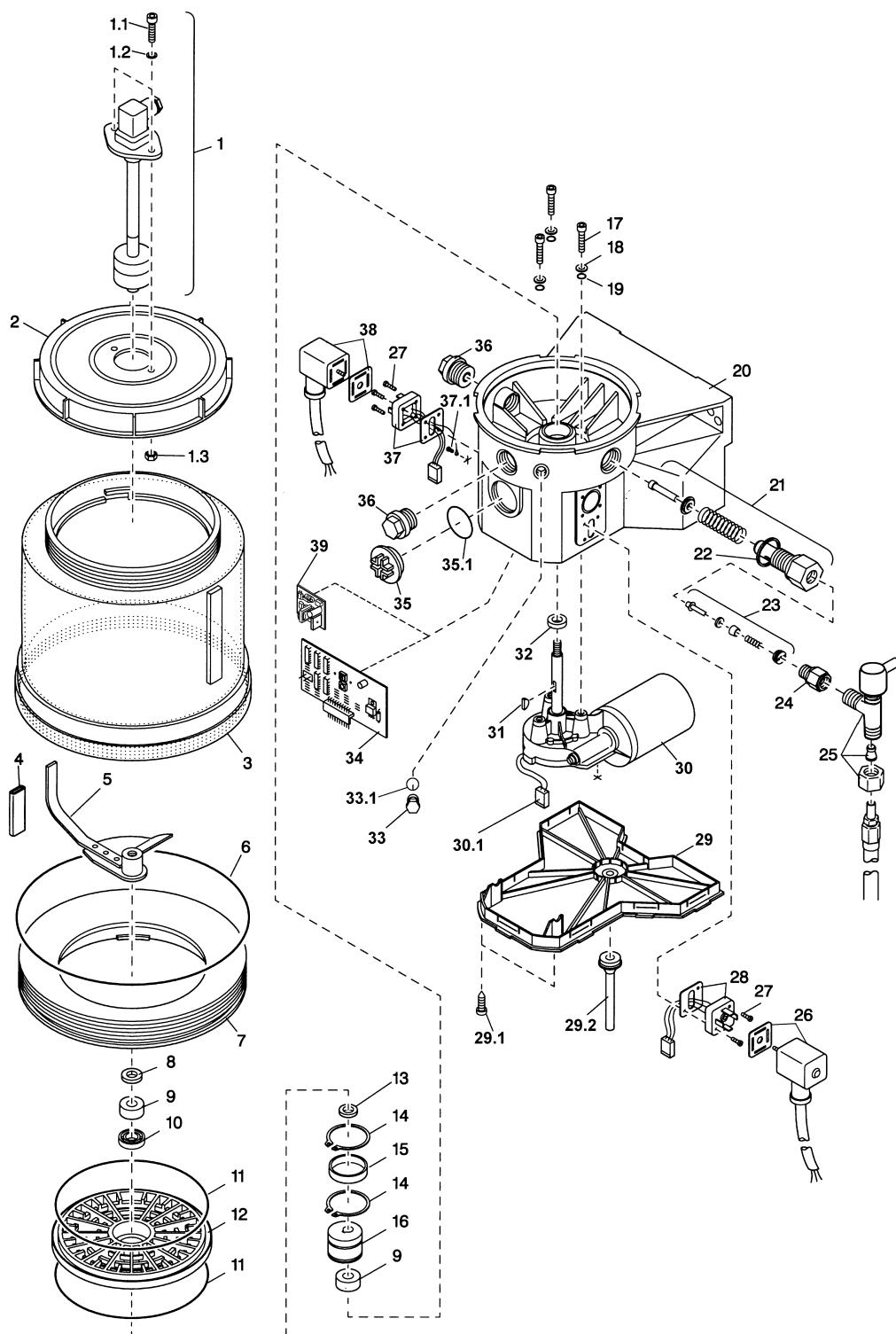
Subject to modifications

\*Alternative parts : See under " Type of Connection...", page 54-59

\*\* Only for pumps with the type of connection 2A1

## Model 203

4-l Reservoir, Filling from Top, with Integrated Control p.c.b.  
of the Models F, V00-V03, V10-V13  
Types of Connection 1A1.10 and/or 2A1.10, with Low-Level Control for Oil



# User's Manual

## Components Parts of Central lubrication pump 103 and 203

**LINCOLN**  
INDUSTRIAL®

2.0A-20003-D00

Item	Designation	Qty.	Part no.	Item	Designation	Qty.	Part no.
1	Low-level control (magnetic floating switch)	1	444-24283-1	27	Screw BZ 3 x 10 C	8	206-13796-6
1.1	Hexagon socket head screw M 6x20 C	2	201-12018-5	28	Appliance plug 2** with cable	1	664-36862-5
1.2	Washer A 6,4 C	2	209-13011-5	29	Housing cover up to serial number 9810010249	1	444-24171-1
1.3	Hexagon nut M 6 C	2	207-12135-5		and 981000063C	1	444-24171-1
2	Reservoir cover	1	444-24282-1		from serial number 9810010250	1	444-24666-1
3	Reservoir 4YNBO	1	544-31998-1		and 981000064C	1	444-24666-1
4	Hose	1	111-35089-2	29.1	Screw f. KF, 3 x 25	10	206-13796-7
5	Stirring paddle assy.	1	544-31929-1	29.2	Drain hose	1	444-24310-1
6	O-ring, Ø210 x 5	1	219-13730-9	30	Repair kit: DC motor		
7	Adapter ring	1	444-24235-1		including items 11, 17, 18, 19, 32.1, 33, 34	12 VDC	544-36913-1
9	Bearing ring	2	444-24168-1			24 VDC	544-36913-2
10	Grooved ball bearing D 10/26 x 8	1	250-14009-7	30.1	Motor connection	1	664-36862-3
11	O - ring Ø 144 x 4	2	219-13730-7	31	Woodruff key 3 x 5	1	214-13123-1
12	Intermediate bottom	1	444-24167-1	32	Rotary shaft seal		
13	Shim 10 x 16 x 1,2	1	209-13047-5		BA 10 x 22 x 7	1	220-12231-3
14	Snap ring SW 32	2	211-14100-1	33	Closure plug R 1/4 Z x 87	1	303-17513-1
15	Pressure ring IR 33 x 37 x 13	1	444-24439-1	33.1	O - ring Ø 11 x 2	1	219-12223-4
16	Eccentric	1	444-24170-2	34	12/24 VDC control p. c. b. *		
17	Hexagon socket head screw M 6 x 25 C	3	201-13668-3		for industrial applications and commercial vehicles		
18	Washer	3	444-24169-1		Model F	1	236-13856-1
19	O - ring Ø 6 x 2	3	219-13084-2		Model V00 - V03, old model	1	236-13862-1
20	Housing up to serial number 9810010249 and 981000063C Kit: housing assy, with housing cover an tightening screws from serial number 9810010250 and 981000064C	1	444-24171-1		Model V10 - V13, new model	1	236-13891-1
				35	Model V20 - V23, U.S.A	1	236-13891-2
				35.1	Sealing plug M 33 x 2	1	233-13124-9
				36	O - ring Ø 31 x 2	1	219-14138-2
				36	Closure plug		
					M 22 x 1,5 x 12	2	303-19285-1
21	Pump element with assy. piston Ø 5 mm	1	600-26875-2	37	Appliance plug 1		
		1	600-26876-2	37.1	with Flachdichtring	1	664-36862-4
		1	600-26877-2	38	Self-tapping screw 3,9 x 6,5 C	1	206-13725-7
		1	655-26178-1		Socket 1 (black)* with		
22	Sealing ring ø 22,2 x 27 x 1,5	1	306-17813-1		flat packing and 10 m cable,	1	664-36078-7
23	Check valve Ø 5 mm, assy.	1	504-36071-8		Socket, black	1	236-13277-9
		1	504-36071-4	39	Flat packing	1	236-13294-3
		1	504-36071-9		Power supply		
		1	504-36071-9		board 230 VAC*	1	544-36961-4
24	Nipple S 2520-1/4-1/4-25	1	226-14105-5		Arrow: direction of rotation	1	810-55106-1
25	Pressure relief valve SVTE - 350-R 1/4 A - D 6, old model	1	624-27158-1		LINCOLN-Logo	1	810-55087-1
		1	624-28894-1				
26	Socket 2 (grey) * ** with flat packing and 10 m cable	1	664-36078-9				

Subject to modifications

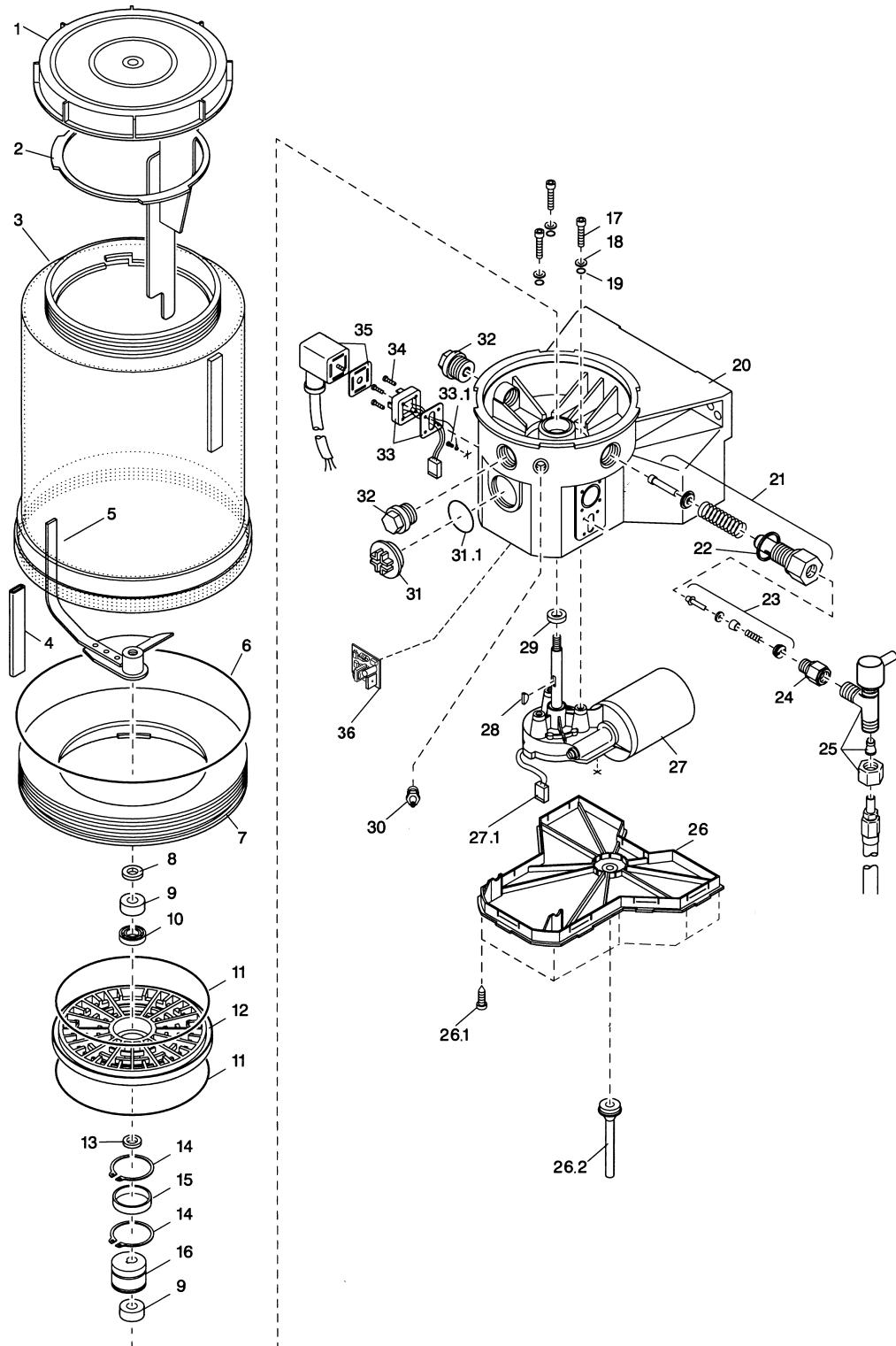
\*Alternative parts : See " Type of Connection...", page 54-59

\*\* Only for pumps with the type of connection 2A1

Note: Connection 2A1.10 (pos. 23,24,25) for an additional lubrication only.

Model 203

## **8 I Reservoir, Filling from nipple or from Top, without Control p.c.b. Type of Connection 1A1.10**



## Subject to modifications

4183b99

# User's Manual

## Components Parts of Central lubrication pump 103 and 203

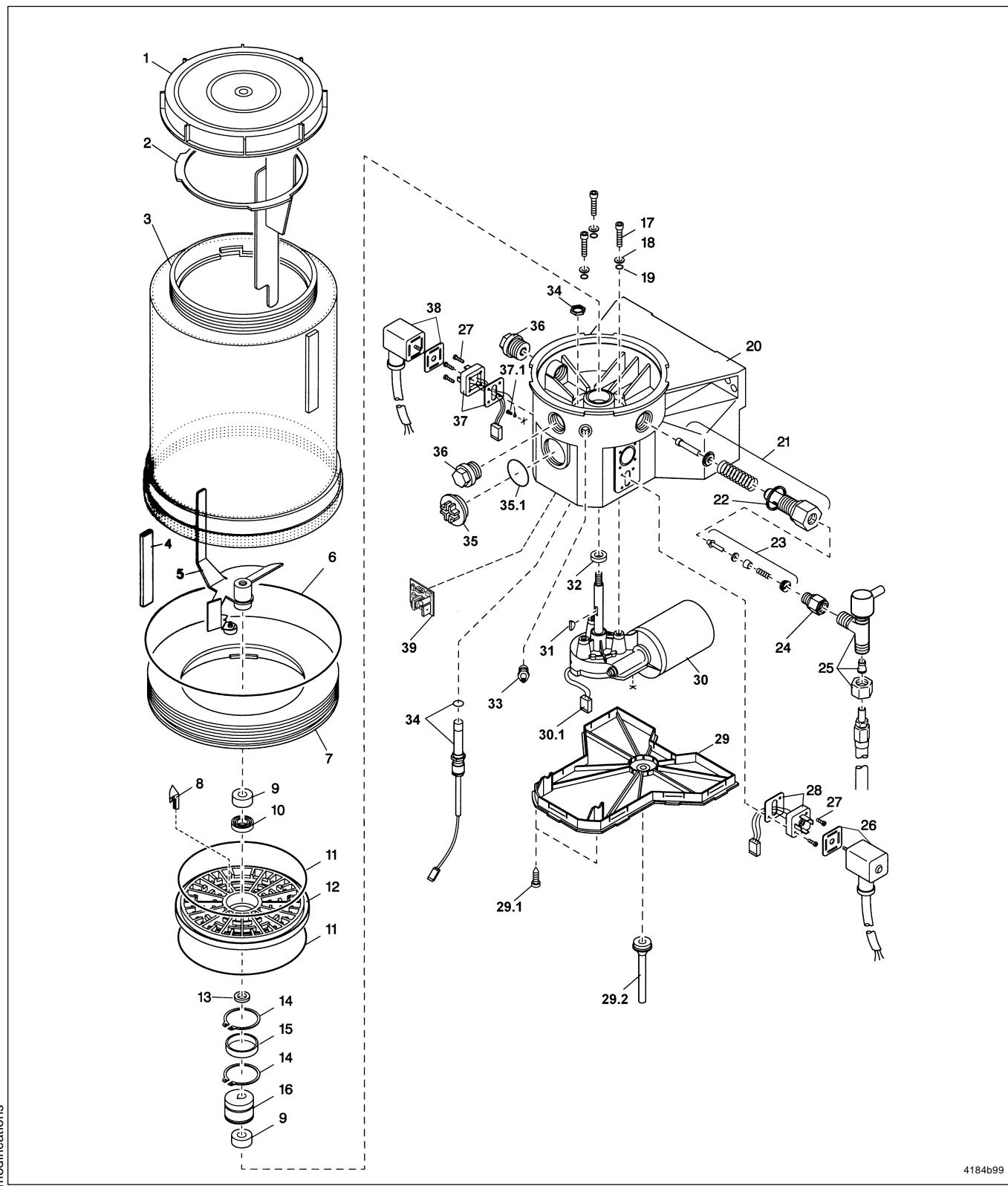


2.0A-20003-D00

Item	Designation	Qty.	Part no.	Item	Designation	Qty.	Part no.
1	Reservoir cover	1	544-31192-1	26	Housing cover		
2	Fixed paddle assy.	1	544-31925-1		up to serial number 9810010249		
3	Reservoir 8XNBO /8NYBO	1	544-31999-1		and 981000063C	1	444-24172-1
4	Hose 10 cm	1	111-35089-2		from serial number 9810010250		
5	Stirring paddle assy.	1	544-31928-1		and 981000064C	1	444-24667-1
6	O-ring, Ø 210 x 5	1	219-13730-9	26.1	Screw f. KF, 3 x 25	10	206-13796-7
7	Adapter ring	1	444-24235-1	26.2	Drain hose	1	444-24310-1
8	Washer 8,4	1	209-13072-6	27	Repair kit: DC motor		
9	Bearing ring	2	444-24168-1		including items 11, 17, 18, 19, 32.1, 33, 34		
10	Grooved ball bearing D 10/26 x 8	1	250-14009-7		12 VDC	1	544-36913-1
11	O - ring Ø 144x4	2	219-13730-7		24 VDC	1	544-36913-2
12	Intermediate bottom	1	444-24167-1	27.1	Motor connection	1	664-36862-3
13	Shim 10 x 16 x 1,2	1	209-13047-5	28	Woodruff key 3 x 5	1	214-13123-1
14	Snap ring SW 32	2	211-14100-1	29	Rotary shaft seal		
15	Pressure ring Ø 33 x 37 x 13	1	444-24439-1		BA 10x22x7	1	220-12231-3
16	Eccentric	1	444-24170-2	30	Hydraulic lub. fitting AR 1/4 Z	1	251-14045-9
17	Hexagon socket head screw M 6 x 25 C	3	201-13668-3	31	Sealing plug M 33 x 2	1	233-13124-9
18	Washer	3	444-24169-1	32	O - ring Ø 31 x 2	1	219-14138-2
19	O - ring Ø 6 x 2	3	219-13084-2	33	Closure plug		
20	Housing up to serial number 9810010249 and 981000063C	1	444-24171-1	33.1	M 22 x 1,5 x 12	2	303-19285-1
	Kit: housing assy, with housing cover an thightening screws from serial number 9810010250 and 981000064C	1	544-32191-1	34	Appliance plug 1 with cable	1	664-36862-4
		1	444-24666-1	35	Self-tapping screw 3,9 x 6,5 C	1	206-13725-7
21	Pump element with assy. piston Ø 5 mm	1	600-26875-2	36	Screw BZ 3 x 10 C	8	206-13796-6
	piston Ø 6 mm	1	600-26876-2		Socket 1 (black)* with flat packing and 10 m cable,	1	664-36078-7
	piston Ø 7 mm	1	600-26877-2		Socket, black	1	236-13277-9
	piston Ø 7 mm for chisel paste	1	600-28750-1		Flat packing	1	236-13294-3
	adjustable pump element	1	655-26178-1		Power supply board 230 VAC*	1	544-36961-4
22	Sealing ring ø 22,2 x 27 x 1,5	1	306-17813-1		Arrow: direction of rotation LINCOLN-Logo	1	810-55106-1
23	Check valve Ø 5 mm, assy.	1	504-36071-8			1	810-55087-1
	Check valve Ø 6 mm, assy.	1	504-36071-4				
	Check valve Ø 7 mm, assy.	1	504-36071-9				
24	Nipple S 2520-1/4-1/4-25	1	226-14105-5				
25	Pressure relief valve SVTE - 350-R 1/4 A - D 6, old model	1	624-27158-1				
	SVTE - 350-R 1/4 A - D 6, new model	1	624-28894-1				

### Model 203

**8 I Reservoir, Filling from nipple or from Top, without Control p.c.b.  
Type of Connection 2A1.10 with Low-Level Control**



# User's Manual

## Components Parts of Central lubrication pump 103 and 203



2.0A-20003-D00

Item	Designation	Qty.	Part no.	Item	Designation	Qty.	Part no.
1	Reservoir cover	1	544-31192-1	29	Housing cover		
2	Fixed paddle assy.	1	544-31925-1		up to serial number 9810010249		
3	Reservoir 8XNBO / 8NYBO	1	544-31999-1		and 981000063C	1	444-24172-1
4	Hose 10 cm	1	111-35089-2		from serial number 9810010250		
5	Stirring paddle assy.	1	544-31954-1		and 981000064C	1	444-24667-1
6	O-ring, Ø 210 x 5	1	219-13730-9	29.1	Screw f. KF, 3 x 25	10	206-13796-7
7	Adapter ring	1	444-24235-1	29.2	Drain hose	1	444-24310-1
8	Control cam	1	444-24212-1	30	Repair kit: DC motor		
9	Bearing ring	2	444-24168-1		including items 11, 17, 18, 19, 32.1, 33, 34		
10	Grooved ball bearing D10 / 26 x 8	1	250-14009-7		12 VDC	1	544-36913-1
11	O - ring Ø 144 x 4	2	219-13730-7		24 VDC	1	544-36913-2
12	Intermediate bottom	1	444-24167-1	30.1	Motor connection	1	664-36862-3
13	Shim 10 x 16 x 1,2	1	209-13047-5	31	Woodruff key 3 x 5	1	214-13123-1
14	Snap ring SW 32	2	211-14100-1	32	Rotary shaft seal		
15	Pressure ring Ø 33 x 37 x 13	1	444-24439-1		BA 10 x 22 x 7	1	220-12231-3
16	Eccentric	1	444-24170-2	33	Hydraulic lub. fitting AR 1/4 Z	1	251-14045-9
17	Hexagon socket head screw M 6 x 25 C	3	201-13668-3	34	Magnetic switch for low-level	1	234-13162-5
18	Washer	3	444-24169-1	35	Sealing plug M 33 x 2	1	233-13124-9
19	O - ring Ø 6 x 2	3	219-13084-2	35.1	O - ring Ø 31 x 2	1	219-14138-2
20	Housing up to serial number 9810010249 and 981000063C	1	444-24171-1	36	Closure plug		
	Kit: housing assy, with housing cover an tightening screws from serial number 9810010250 and 981000064C	1	544-32191-1	37	M 22 x 1,5 x 12	2	303-19285-1
		1	444-24666-1	37.1	Appliance plug 1 with cable	1	664-36862-4
21	Pump element with assy. piston Ø 5 mm	1	600-26875-2	38	Self-tapping screw 3,9 x 6,5 C	1	206-13725-7
	piston Ø 6 mm	1	600-26876-2		Socket 1 (black)* with flat packing and 10 m cable,	1	664-36078-7
	piston Ø 7 mm	1	600-26877-2		Socket, black	1	236-13277-9
	piston Ø 7 mm for chisel paste	1	600-28750-1		Flat packing	1	236-13294-3
	adjustable pump element	1	655-26178-1		Power supply		
22	Sealing ring Ø 22,2 x 27 x 1,5	1	306-17813-1		board 230 VAC*	1	544-36961-4
23	Check valve Ø 5 mm, assy.	1	504-36071-8		Arrow: direction of rotation	1	810-55106-1
	Check valve Ø 6 mm, assy.	1	504-36071-4		LINCOLN-Logo	1	810-55087-1
	Check valve Ø 7 mm, assy.	1	504-36071-9				
24	Nipple S 2520-1/4-1/4-25	1	226-14105-5				
25	Pressure relief valve SVTE - 350-R 1/4 A - D 6, old model	1	624-27158-1				
	SVTE - 350-R 1/4 A - D 6, new model	1	624-28894-1				
26	Socket 2 (grey) * **						
	with flat packing and 10 m cable	1	664-36078-9				
27	Screw BZ 3 x 10 C	8	206-13796-6				
28	Appliance plug 2** with cable	1	664-36862-5				

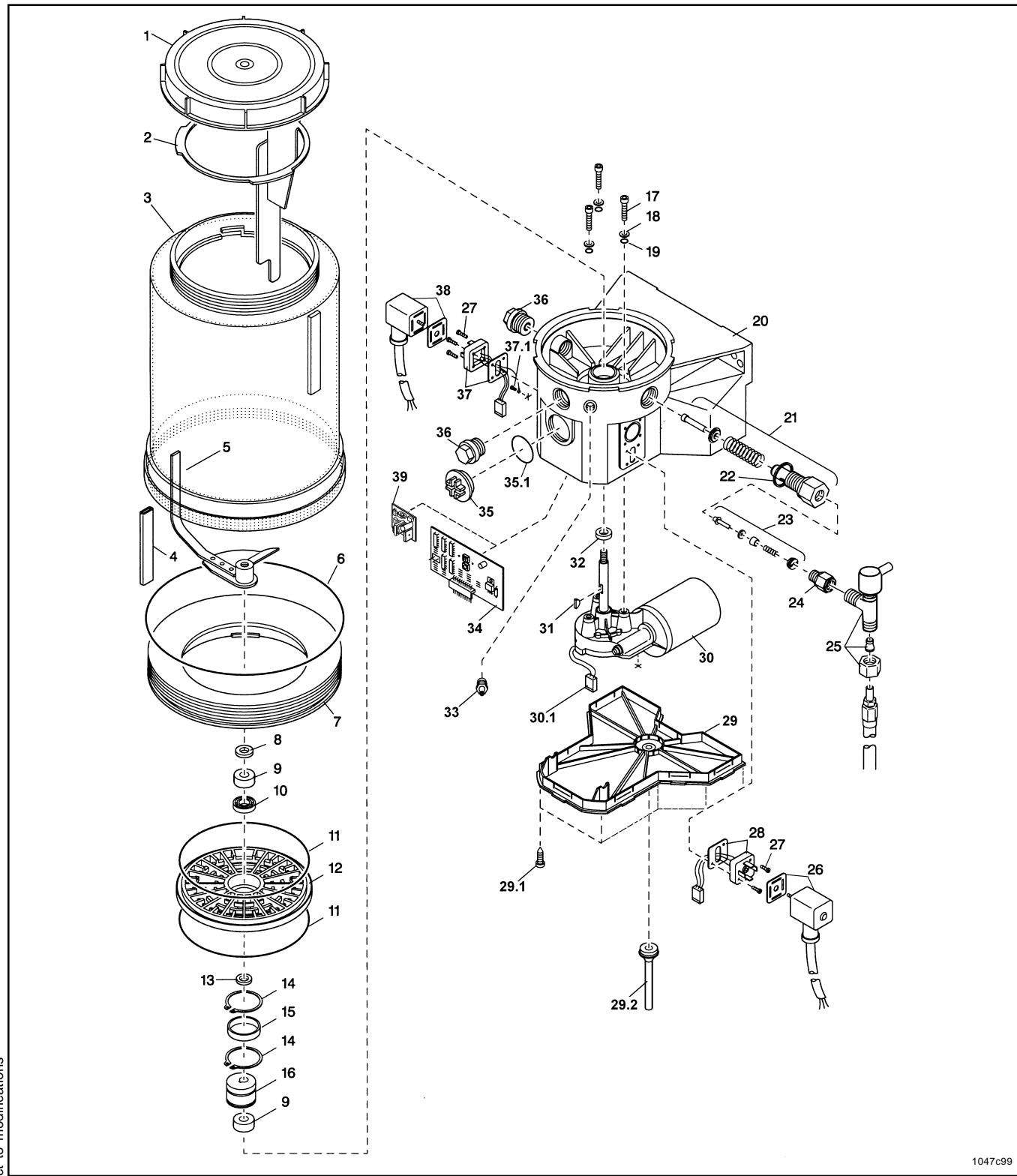
Subject to modifications

\* Alternative parts : See under " Type of Connection...", page 54-59

\*\* Only for pumps with the type of connection 2A

Model 203

**8-I Reservoir, Filling from nipple or from Top, with Integrated Control p.c.b.  
of the Models F, V00 - V03, V10-V13 and H  
Types of Connection 1A1.10 and/or 2A1.10**



# User's Manual

## Components Parts of Central lubrication pump 103 and 203



2.0A-20003-D00

Item	Designation	Qty.	Part no.	Item	Designation	Qty.	Part no.
1	Reservoir cover	1	544-31192-1	29	Housing cover		
2	Fixed paddle assy.	1	544-31925-1		up to serial number 9810010249		
3	Reservoir 8XNBO / 8NYBO	1	544-31999-1		and 981000063C	1	444-24172-1
4	Hose 10 cm	1	111-35089-2		from serial number 9810010250		
5	Stirring paddle assy.	1	544-31954-1		and 981000064C	1	444-24667-1
6	O-ring, Ø 210 x 5	1	219-13730-9	29.1	Screw f. KF, 3 x 25	10	206-13796-7
7	Adapter ring	1	444-24235-1	29.2	Drain hose	1	444-24310-1
8	Washer 8,4	1	209-13072-6	30	Repair kit: DC motor		
9	Bearing ring	2	444-24168-1		including items 11, 17, 18, 19, 32.1, 33, 34		
10	Grooved ball bearing D10 / 26 x 8	1	250-14009-7		12 VDC	1	544-36913-1
11	O - ring Ø 144 x 4	2	219-13730-7		24 VDC	1	544-36913-2
12	Intermediate bottom	1	444-24167-1	30.1	Motor connection	1	664-36862-3
13	Shim 10 x 16 x 1,2	1	209-13047-5	31	Woodruff key 3 x 5	1	214-13123-1
14	Snap ring SW 32	2	211-14100-1	32	Rotary shaft seal		
15	Pressure ring Ø 33 x 37 x 13	1	444-24439-1		BA 10 x 22 x 7	1	220-12231-3
16	Eccentric	1	444-24170-2	33	Hydraulic lub. fitting AR 1/4 Z	1	251-14045-9
17	Hexagon socket head screw M 6 x 25 C	3	201-13668-3	34	12/24 VDC control p. c. b. *		
18	Washer	3	444-24169-1		for industrial applications and commercial vehicles		
19	O - ring Ø 6 x 2	3	219-13084-2		Model F	1	236-13856-1
20	Housing up to serial number 9810010249 and 981000063C	1	444-24171-1		Model V00 - V03, old model	1	236-13862-1
	Kit: housing assy, with housing cover an tightening screws from serial number 9810010250 and 981000064C	1	544-32191-1		Model V10 - V13, new model	1	236-13891-1
		1	444-24666-1		Model V20 - V23, U.S.A	1	236-13891-2
21	Pump element with assy. piston Ø 5 mm	1	600-26875-2		Model H	1	236-13857-1
	piston Ø 6 mm	1	600-26876-2		12/24 VDC, ADR tractors		
	piston Ø 7 mm	1	600-26877-2	35	Model FADR	1	236-13859-1
	adjustable pump element	1	655-26178-1	35.1	Model V00 - V03, old model	1	236-13862-1
22	Sealing ring Ø 22,2 x 27 x 1,5	1	306-17813-1	36	Model V10 - V13, new model	1	236-13891-1
23	Check valve Ø 5 mm, assy.	1	504-36071-8		12/24 VDC, ADR trailer		
	Check valve Ø 6 mm, assy.	1	504-36071-4	35	Model H	1	236-13857-1
	Check valve Ø 7 mm, assy.	1	504-36071-9	35.1	Sealing plug M 33 x 2	1	233-13124-9
24	Nipple S 2520-1/4-1/4-25	1	226-14105-5	36	O - ring Ø 31 x 2	1	219-14138-2
25	Pressure relief valve			37.1	Closure plug		
	SVTE - 350-R 1/4 A - D 6, old model	1	624-27158-1	37	M 22 x 1,5 x 12	2	303-19285-1
	SVTE - 350-R 1/4 A - D 6, new model	1	624-28894-1	38	Appliance plug 1		
26	Socket 2 (grey) * **				with cable	1	664-36862-4
	with flat packing and 10 m cable	1	664-36078-9		with cable	1	664-36078-7
	with flat packing and 10 m cable,for				Self-tapping screw 3,9 x 6,5 C	1	206-13725-7
	ADR - pump	1	664-36862-2	39	Socket 1 (black)* with		
27	Screw BZ 3 x 10 C	8	206-13796-6		flat packing and 10 m cable,		
28	Appliance plug 2 with cable**	1	664-36862-5		with flat packing and 10 m cable,for		
					ADR - pump	1	664-36862-2
					Socket, black	1	236-13277-9
					Flat packing	1	236-13294-3
					Power supply		
					board 230 VAC*	1	544-36961-4
					Arrow: direction of rotation	1	810-55106-1
					LINCOLN-Logo	1	810-55087-1

Subject to modifications

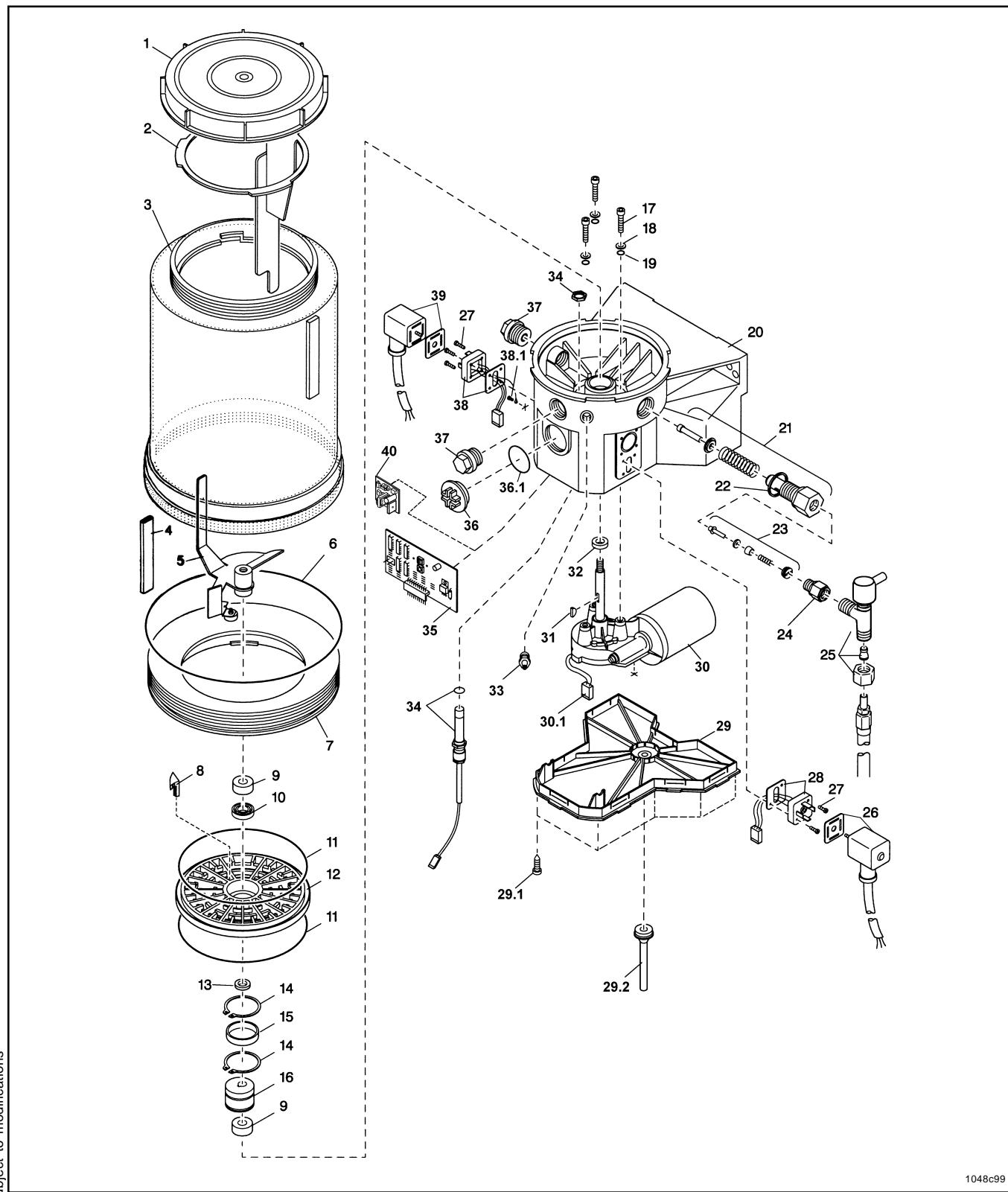
\* Alternative parts : See under " Type of Connection...", page 54-59

\*\* Only for pumps with the type of connection 2A

## Model 203

8-l Reservoir, Filling from nipple or from Top, with Integrated Control p.c.b.  
of the Models F, V00 - V03, V10-V13

Types of Connection 2A1.10, with Low-Level Control for Grease



# User's Manual

## Components Parts of Central lubrication pump 103 and 203



2.0A-20003-D00

Item	Designation	Qty.	Part no.	Item	Designation	Qty.	Part no.
1	Reservoir cover	1	544-31192-1	29	Housing cover		
2	Fixed paddle assy.	1	544-31925-1		up to serial number 9810010249		
3	Reservoir 8XNBO / 8NYBO	1	444-24233-1		and 981000063C	1	444-24172-1
4	Hose 10 cm	1	111-35089-2		from serial number 9810010250		
5	Stirring paddle assy.	1	544-31954-1		and 981000064C	1	444-24667-1
6	O-ring, Ø 210 x 5	1	219-13730-9	29.1	Screw f. KF, 3 x 25	10	206-13796-7
7	Adapter ring	1	444-24235-1	29.2	Drain hose	1	444-24310-1
8	Control cam	1	444-24212-1	30	Repair kit: DC motor		
9	Bearing ring	2	444-24168-1		including items 11, 17, 18, 19, 32.1, 33, 34		
10	Grooved ball bearing D10 / 26 x 8	1	250-14009-7		12 VDC	1	544-36913-1
11	O - ring Ø 144 x 4	2	219-13730-7		24 VDC	1	544-36913-2
12	Intermediate bottom	1	444-24167-1	30.1	Motor connection	1	664-36862-3
13	Shim 10 x 16 x 1,2	1	209-13047-5	31	Woodruff key 3 x 5	1	214-13123-1
14	Snap ring SW 32	2	211-14100-1	32	Rotary shaft seal		
15	Pressure ring Ø 33 x 37 x 13	1	444-24439-1		BA 10 x 22 x 7	1	220-12231-3
16	Eccentric	1	444-24170-2	33	Hydraulic lub. fitting AR 1/4 Z	1	251-14045-9
17	Hexagon socket head screw M 6 x 25 C	3	201-13668-3	34	Magnetic switch for low-level	1	234-13162-4
18	Washer	3	444-24169-1	35	12/24 VDC control p. c. b. *		
19	O - ring Ø 6 x 2	3	219-13084-2		for industrial applications and commercial vehicles		
20	Housing up to serial number 9810010249 and 981000063C	1	444-24171-1		Model F	1	236-13856-1
	Kit: housing assy, with housing cover an tightening screws from serial number 9810010250 and 981000064C	1	544-32191-1		Model V00 - V03, old model	1	236-13862-1
		1	444-24666-1		Model V10 - V13, new model	1	236-13891-1
21	Pump element with assy. piston Ø 5 mm	1	600-26875-2		Model V20 - V23, U.S.A	1	236-13891-2
	piston Ø 6 mm	1	600-26876-2		Model H	1	236-13857-1
	piston Ø 7 mm	1	600-26877-2		12/24 VDC, ADR tractors		
	piston Ø 7 mm for chisel paste	1	600-28750-1	36	Model FADR	1	236-13859-1
	adjustable pump element	1	655-26178-	36.1	Model V00 - V03, old model	1	236-13862-1
22	Sealing ring Ø 22,2 x 27 x 1,5	1	306-17813-1	37	Model V10 - V13, new model	1	236-13891-1
23	Check valve Ø 5 mm, assy.	1	504-36071-8		12/24 VDC, ADR trailer		
	Check valve Ø 6 mm, assy.	1	504-36071-4	38	Model H	1	236-13857-1
	Check valve Ø 7 mm, assy.	1	504-36071-9		Sealing plug M 33 x 2	1	233-13124-9
24	Nipple S 2520-1/4-1/4-25	1	226-14105-5	38.1	O - ring Ø 31 x 2	1	219-14138-2
25	Pressure relief valve SVTE - 350-R 1/4 A - D 6, old model	1	624-27158-1	39	Closure plug		
	SVTE - 350-R 1/4 A - D 6, new model	1	624-28894-1		M 22 x 1,5 x 12	2	303-19285-1
26	Socket 2 (grey) * **	1	664-36862-2		Appliance plug 1		
	with 10 m cable, for ADR-pump	1	664-36862-2		with cable	1	664-36862-4
27	Screw BZ 3 x 10 C	8	206-13796-6	40	Self - tapping screw 3,9 x 6,5 C	1	206-13725-7
28	Appliance plug 2 with cable**	1	664-36862-5		Socket 1 (black)* with flat packing and 10 m cable,	1	664-36078-7
					with flat packing and 10 m cable, for ADR - pump	1	664-36862-2
					Socket, black	1	236-13277-9
					Power supply board 230 VAC*	1	544-36961-4
					Arrow: direction of rotation LINCOLN-Logo	1	810-55106-1
						1	810-55087-1

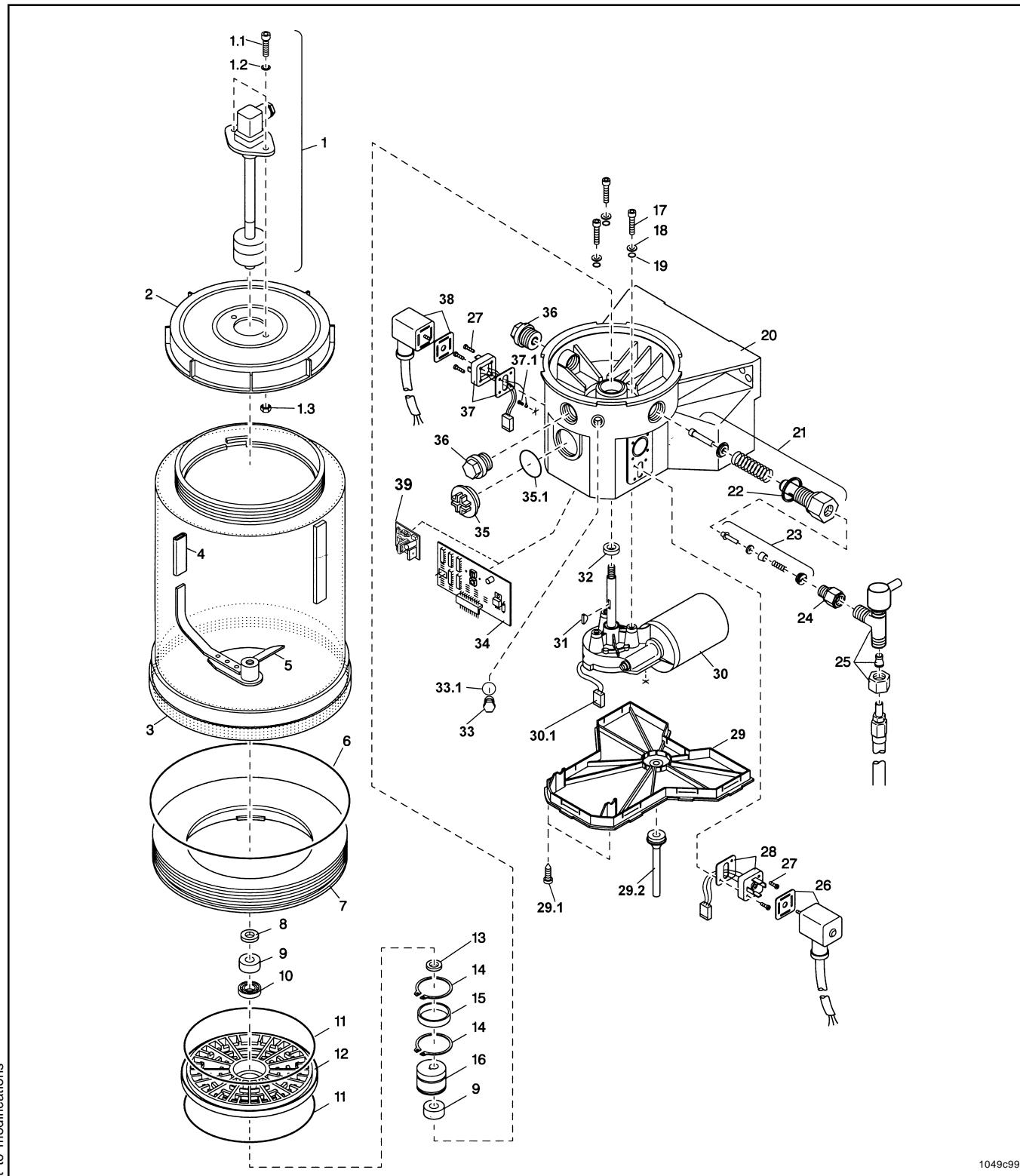
Subject to modifications

\* Alternative parts : See under " Type of Connection...", page 54-59

\*\* Only for pumps with the type of connection 2A

### Model 203

8-l Reservoir, Filling from Top, with Integrated Control p.c.b.  
of the Models F, V00-V03, V10-V13  
Types of Connection 1A1.10 and/or 2A1.10, with Low-Level Control, for Oil



# User's Manual

## Components Parts of Central lubrication pump 103 and 203



2.0A-20003-D00

Item	Designation	Qty.	Part no.	Item	Designation	Qty.	Part no.
1	Low-level control (magnetic floating switch)	1	444-24983-1	29	Housing cover up to serial number 9810010249 and 981000063C	1	444-24172-1
1.1	Hexagon socket head screw M 6x20 C	2	201-12018-5		from serial number 9810010250 and 981000064C	1	444-24667-1
1.2	Washer A 6,4 C	2	209-13011-5	29.1	Screw f. KF, 3 x 25	10	206-13796-7
1.3	Hexagon nut M 6 C	2	207-12135-5	29.2	Drain hose	1	444-24310-1
2	Reservoir cover	1	444-24282-1	30	Repair kit: DC motor including items 11, 17, 18, 19, 32.1, 33, 34		
3	Reservoir 8 XNBO / 8YNBO	1	544-31999-1		12 VDC	1	544-36913-1
4	Hose 3 cm	1	111-35089-2		24 VDC	1	544-36913-2
5	Stirring paddle assy.	1	544-31929-1	30.1	Motor connection	1	664-36862-3
6	O-ring, Ø 210 x 5	1	219-13730-9	31	Woodruff key 3 x 5	1	214-13123-1
7	Adapter ring	1	444-24235-1	32	Rotary shaft seal		
9	Bearing ring	2	444-24168-1	33	BA 10 x 22 x 7	1	220-12231-3
10	Grooved ball bearing D 10/26 x 8	1	250-14009-7	34	Closure plug R1/4 x 82	1	303-17513-1
11	O - ring Ø 144x4	2	219-13730-7	35.1	O-ring Ø 11 x 2	1	219-12223-4
12	Intermediate bottom	1	444-24167-1	35	12/24 VDC control p.c. b. *		
13	Shim 10 x 16 x 1,2	1	209-13047-5	35.1	Model F	1	236-13856-1
14	Snap ring SW 32	2	211-14100-1	36	Model V00 - V03, old model	1	236-13862-1
15	Pressure ring Ø 33 x 37 x 13	1	444-24439-1	37	Model V10 - V13, new model	1	236-13891-1
16	Eccentric	1	444-24170-2	37	Model V20 - V23, U.S.A	1	236-13891-2
17	Hexagon socket head screw M 6x25	3	201-13668-3	38	Sealing plug M 32 x 2	1	233-13124-9
18	Washer	3	444-24169-1	35.1	O - ring Ø 31 x 2	1	219-14138-2
19	O - ring Ø 6 x 2	3	219-13084-2	36	Closure plug		
20	Housing up to serial number 9810010249 and 981000063C Kit: housing assy, with housing cover an tightening screws from serial number 9810010250 and 981000064C	1	444-24171-1	37	M 22 x 1,5 x 12	2	303-19285-1
				37.1	Appliance plug 1 with cable*	1	664-36862-4
				38	Self - tapping screw 3,9 x 6,5 C	1	206-13725-7
21	Pump element with assy. piston Ø 5 mm	1	600-26875-2	38	Socket 1 (black) *		
		1	600-26876-2		with 10 m cable	1	664-36078-7
		1	600-26877-2	39	with 10 m cable, for		
		1	655-26178-1		ADR - pump	1	664-36862-2
22	adjustable pump element	1	306-17813-1		Socket, black	1	236-13277-9
23	Sealing ring Ø 22,2 x 27 x 1,5	1	504-36071-8	39	Power supply board 230 VAC*	1	544-36961-4
		1	504-36071-4				
		1	504-36071-9				
24	Check valve Ø 5 mm, assy.	1	504-36071-8		Arrow: direction of rotation	1	810-55106-1
		1	504-36071-4		LINCOLN-Logo	1	810-55087-1
25	Check valve Ø 6 mm, assy.	1	504-36071-4				
		1	504-36071-9				
26	Check valve Ø 7 mm, assy.	1	504-36071-9				
27	Pressure relief valve SVTE - 350-R 1/4 A - D 6, old model	1	624-27158-1				
		1	624-28894-1				
28	SVTE - 350-R 1/4 A - D 6, new model	1	624-28894-1				
29	Socket 2 (grey) * **	1	664-36078-9				
		1	664-36078-9				
30	with 10 m cable	1	664-36862-2				
		1	664-36862-2				
31	Socket 2 (grey)	1	664-36862-2				
		1	664-36862-2				
32	with 10 m cable, for ADR-pump	1	664-36862-2				
		1	664-36862-2				
33	Screw BZ 3 x 10 C	8	206-13796-6				
34	Appliance plug 2 with cable	1	664-36862-5				

\*Alternative parts : See "Type of Connection...", page 54-59

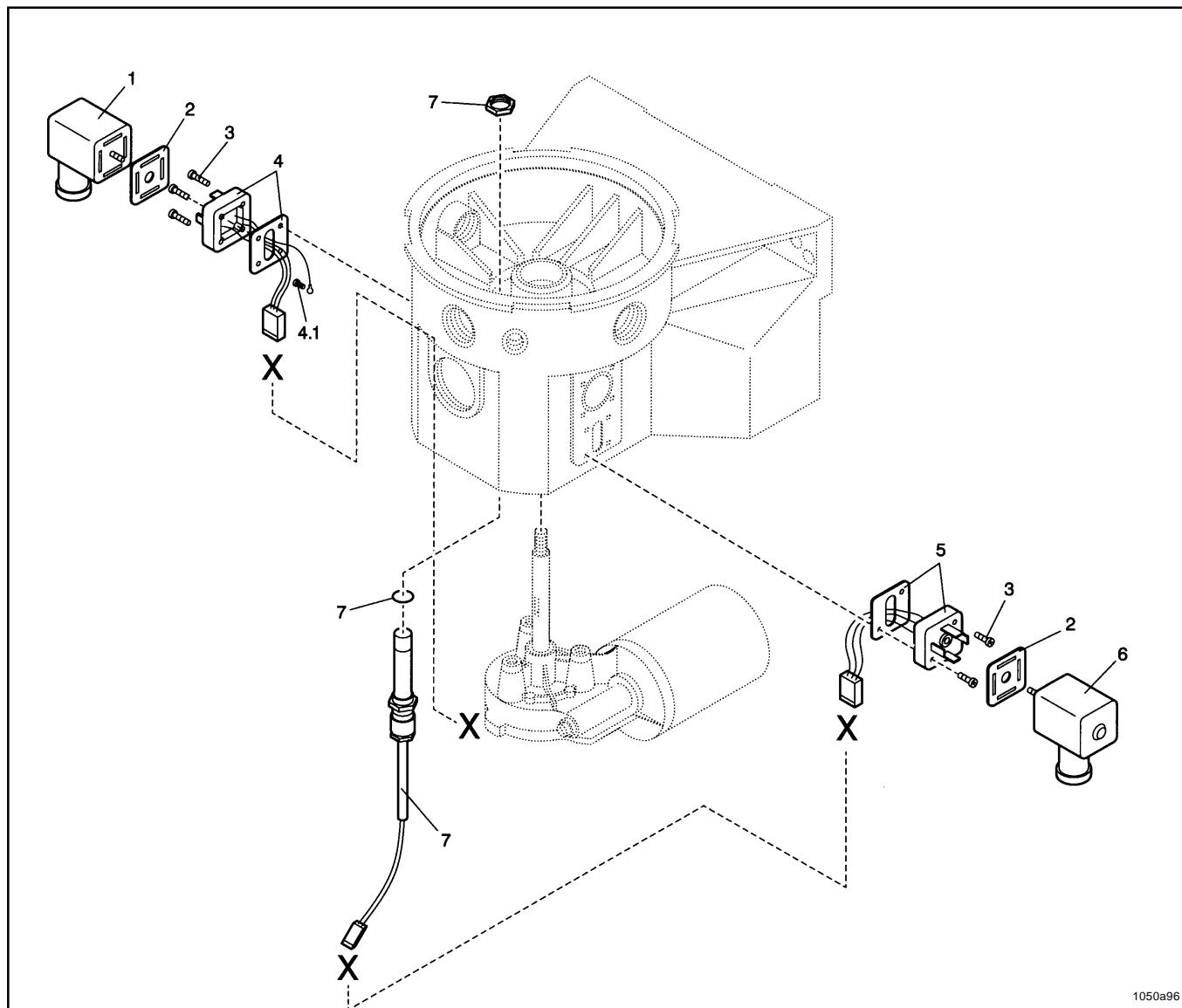
\*\* Only for pumps with the type of connection 2A1

Note: Connection 2A1.10 (pos. 23,24,25) for an additional lubrication only.

## Model 203

### Type of Connection 1A1.01/2A1.01 of the 203 Pumps (industrial applications)

Note : The component parts of the model 203 pumps are listed with the respective preceding component drawings. For the industrial applications the parts mentioned below are different from those of the standard version.

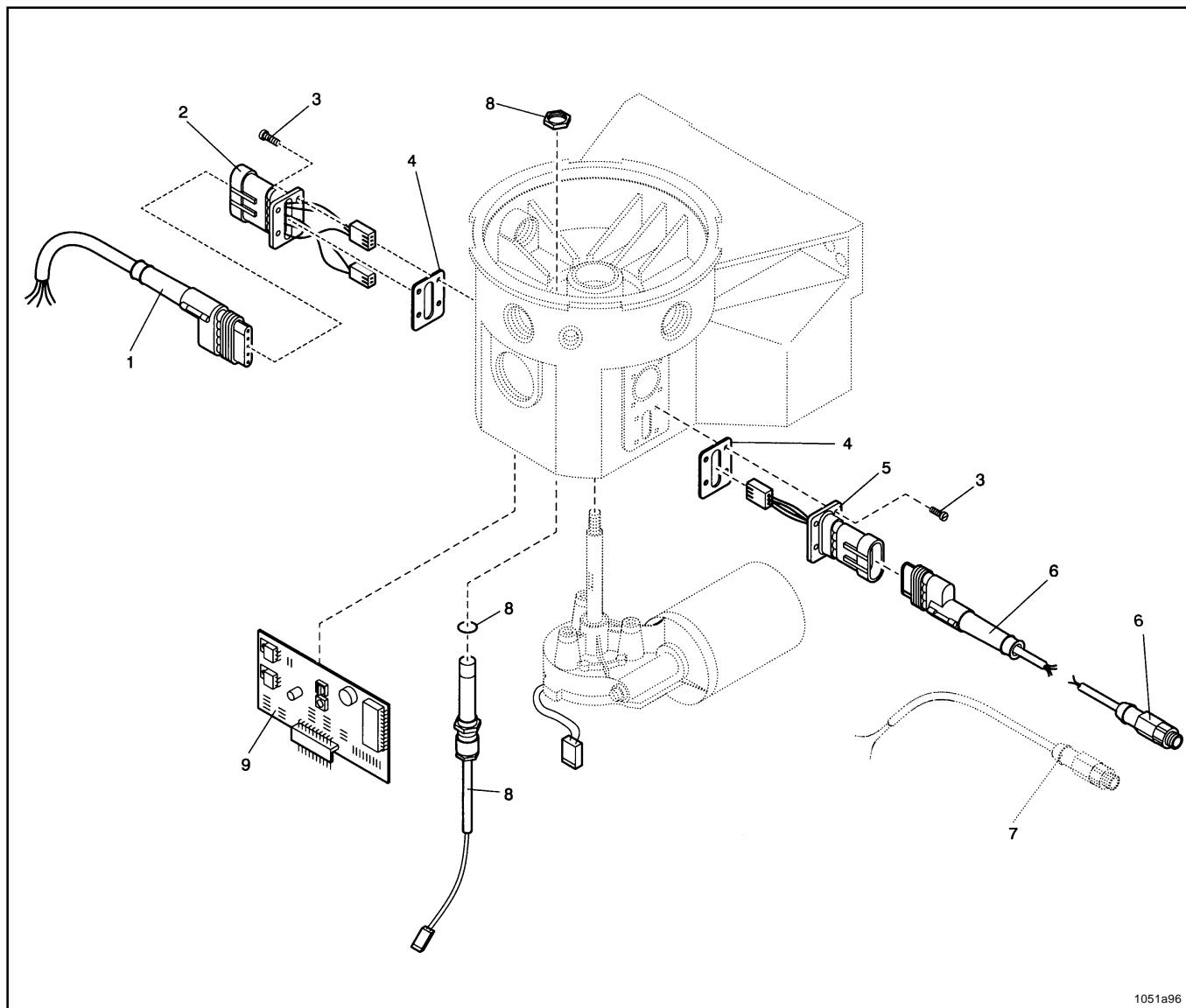


Item	Designation	Qty.	Part no.	Item	Designation	Qty.	Part no.
1	Socket, black	1	236-13277-9	4.1	Self-tapping screw 3,9 x 6,5 C	1	206-13725-7
2	Flat packing	1	236-13294-3	5	Appliance plug 2 with cable	1	664-36862-5
3	Screw BZ 3 x 10 C	4	206-13796-6	6	Socket, black	1	236-13277-9
4	Appliance plug 1 with cable	1	664-36862-6	7	Magnetic switch for low-level control	1	234-13162-4

## Model 203

### Type of Connection 2A4.12/2A4.13 of the 203 Pumps for Microprocessor Control

Note : The component parts of the 203 pumps are listed with the respective preceding component drawings. For the microprocessor control, the parts mentioned below are different from the standard version.

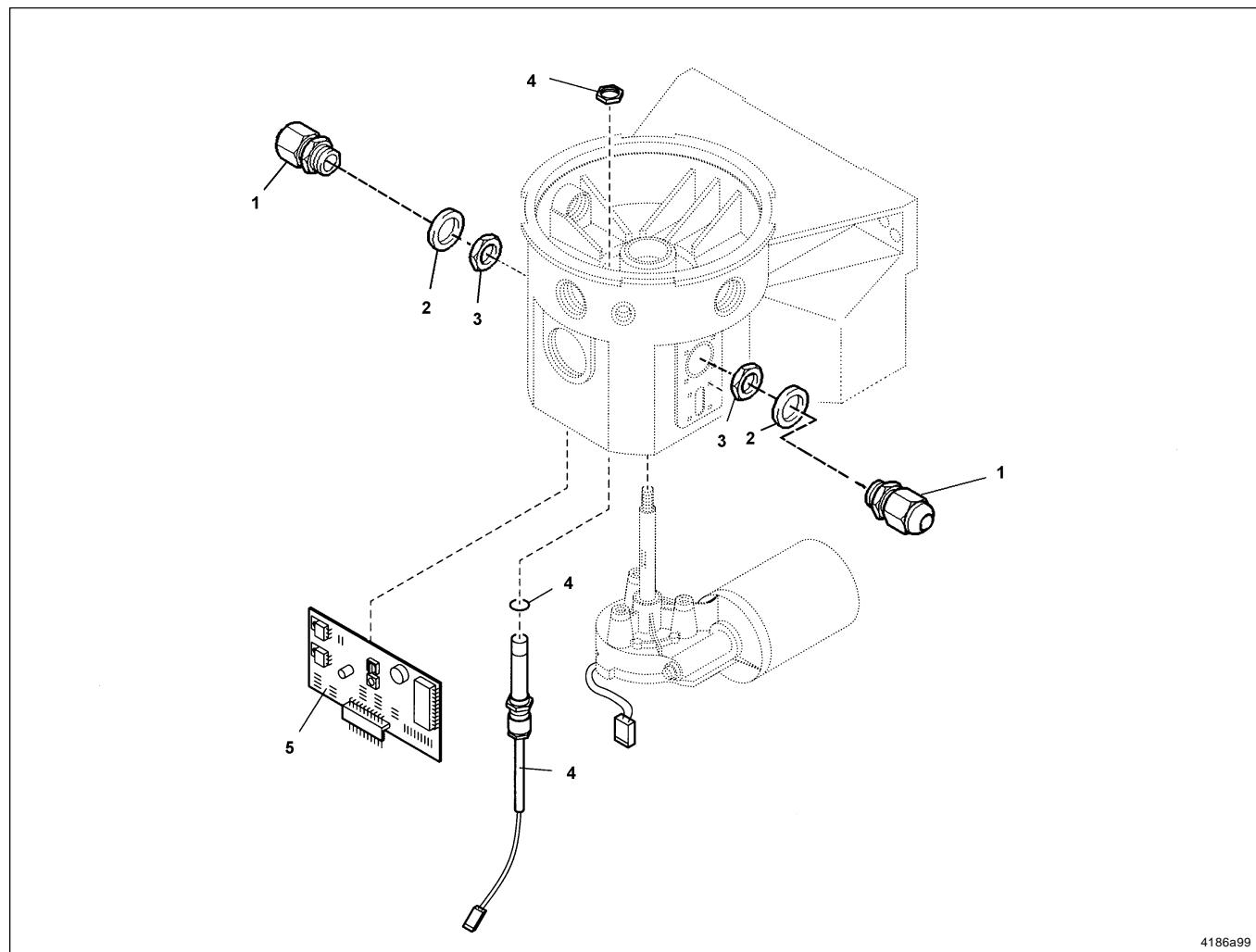


1051a96

Item	Designation	Qty.	Part no.	Item	Designation	Qty.	Part no.
1	Connection cable 4-wire*	1	664-36844-8	5	Flanged plug, 4-pole	1	664-36884-1
	Connection cable 5-wire**	1	664-36884-8	6	Piston detector with plug, M11x1	1	234-13157-2
2	Flanged plug, 5-pole	1	664-36884-2		Piston detector with plug 1/8	1	234-13158-5***
3	Screw BZ 3 x 10 C	8	206-13796-6	7	Piston detector without plug,M11x1	1	234-13157-1
4	Flat packing 35 x 27 x 1	2	306-19562-1		Piston detector without plug, 1/8	1	234-13158-2***
Subject to modifications				8	Magnetic switch for low-level control	1	234-13162-4
* Printed circuit board M00 - M07				9	Printed circuit board***	1	236-13870-1
**Printed circuit board M08 - M23							
*** older variant							

## Model 203

Type of Connection 1A8.00 / 2A8.00 of the 203 Pumps (industrial applications)

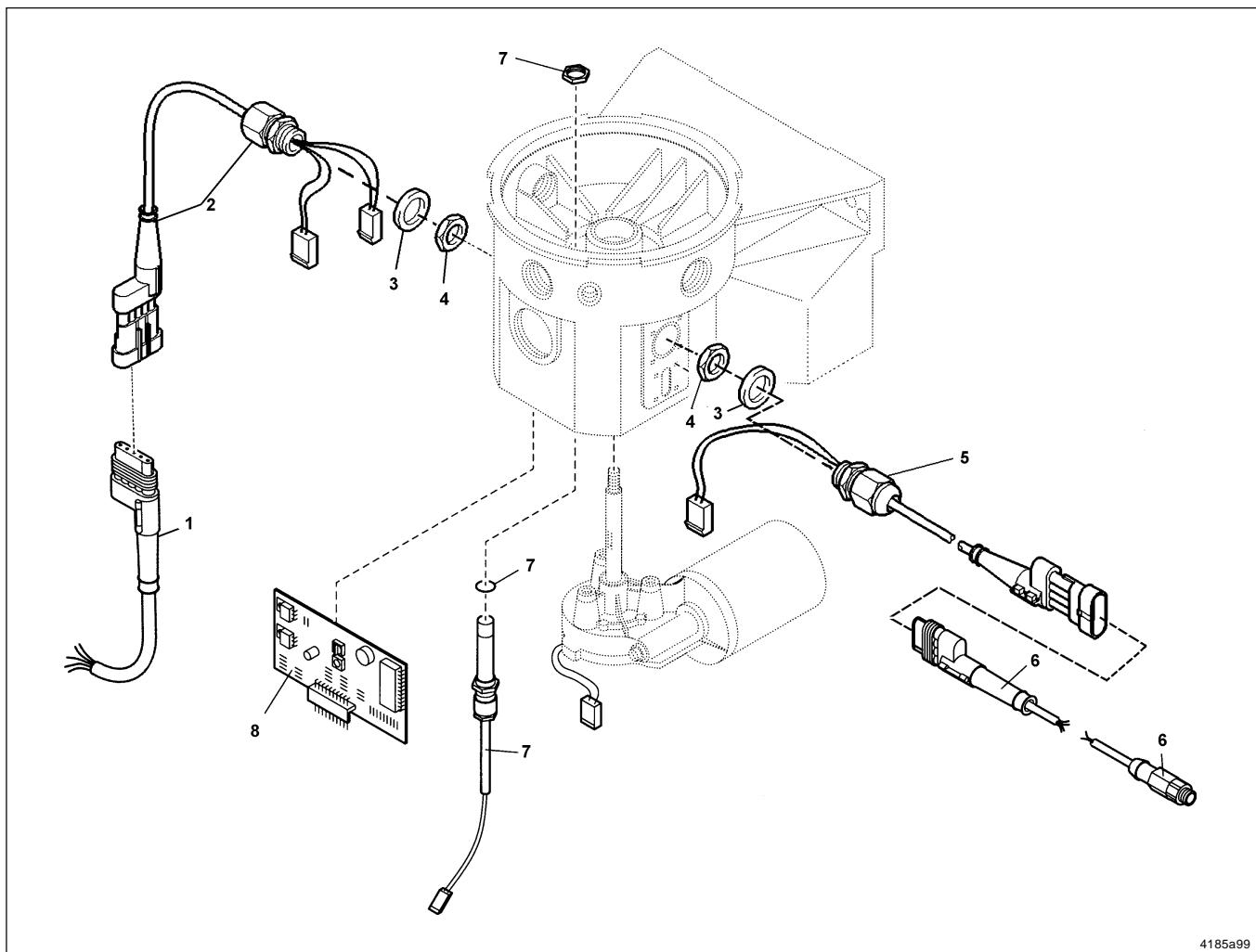


4186a99

Item	Designation	Qty.	Part no.	Item	Designation	Qty.	Part no.
1	Cable gland KF, PG 9	2	237-13397-3	4	Magnetic switch for low-level	1	234-13162-4
2	Sealing ring ABIL 15,2x19,5x0,5	2	306-19549-1	5	Printed circuit board***	1	236-13870-1
3	Jam nut KF PG 9	2	237-13352-8				

**Model 203**

Type of Connection 1A9.12,13 / 2A9.12,13 of the 203 Pumps (industrial applications)



4185a99

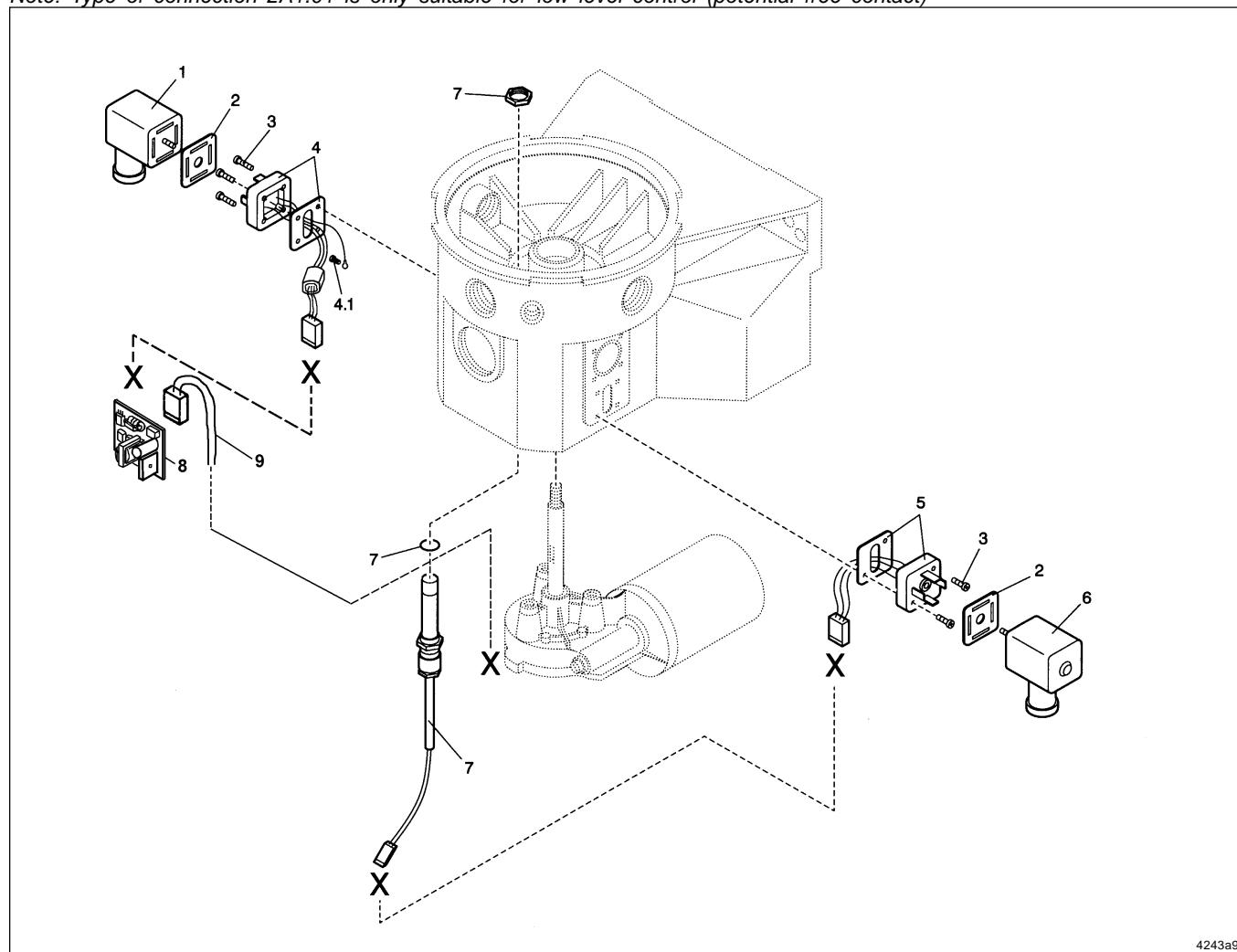
Item	Designation	Qty.	Part no..	Item	Designation	Qty.	Part no.
1	Connecting cable, 4 wire*	1	664-36844-8	5	Cable assy. 4 wire, 0,94 m***	1	664-36931-1
	Connecting cable, 5 wire**	1	664-36884-8	6	Piston detector with plug	1	234-13178-2
2	Cable assy. 5 adrig, 0,94 m***	1	664-36931-2		Piston detector without plug	1	234-13178-1
3	Sealing ring ABIL 15,2x19,5x0,5	2	306-19549-1	7	Magnetic switch for low-level	1	234-13162-4
4	Jam nut KF PG 9	2	237-13352-8	8	Printed circuit board	1	236-13870-1

Subject to modifications

\* Printed circuit board M00 - M07

\*\* Printed circuit board M08 - M23

\*\*\* length of cable assy.: 0,8 m from cable gland to end of plug

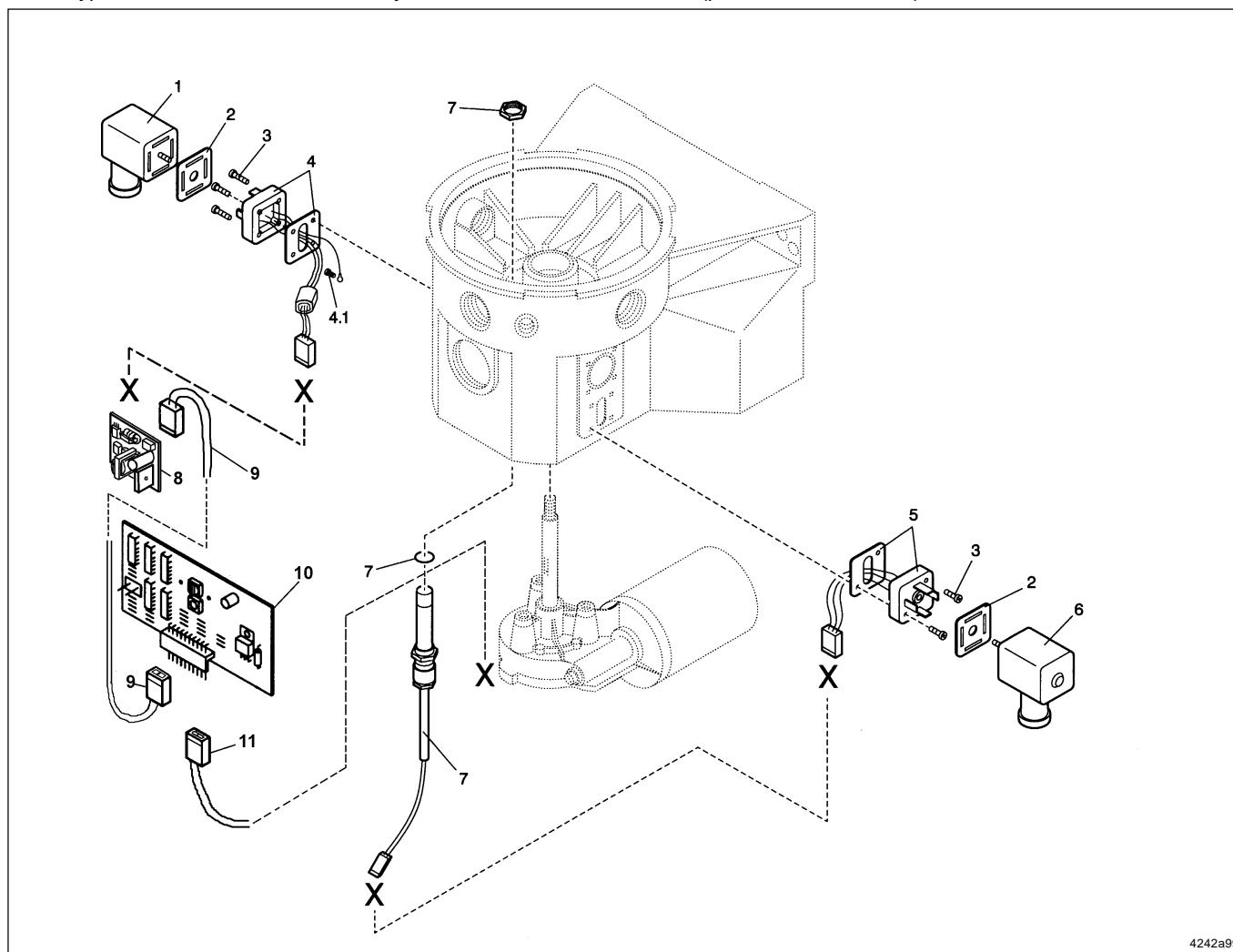
**Model 203 with power supply board for 95 to 265 VAC**
**Type of Connection 1A1.01/2A1.01 of the Pumps without p. c. b. (industrial applications)**
*Note: Type of connection 2A1.01 is only suitable for low level control (potential free contact)*


Item	Designation	Qty.	Part no.	Item	Designation	Qty.	Part no.
1	Socket, black	1	236-13277-9	4.1	Self - tapping screw 3,9 x 6,5 C	1	206-13725-7
2	Flat packing	1	236-13294-3	5	Appliance plug 2 with cable	1	664-36862-5
3	Screw BZ 3 x 10 C	4	206-13796-6	6	Socket, black	1	236-13277-9
4	Appliance plug 1 with cable and ferrite core	1	664-36917-5	7	Magnetic switch for low level control	1	234-13162-4
				8	Power supply board 94 - 265 VAC	1	544-36961-4
				9	Motor connection	1	664-36917-6

### Model 203 with power supply board for 94 to 265 VAC

Type of Connection 1A1.01/2A1.01 of the Pumps with p. c. b (V 10-V 13) for industrial applications

Note: Type of connection 2A1.01 is only suitable for low level control (potential free contact)

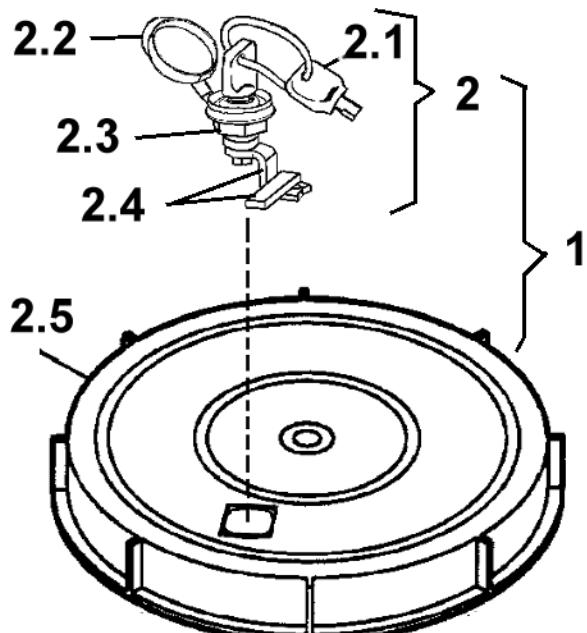


4242a99

Item	Designation	Qty.	Part no.	Item	Designation	Qty.	Part no.
1	Socket, black	1	236-13277-9	6	Socket, black	1	236-13277-9
2	Flat packing	1	236-13294-3	7	Magnetic switch for low level control	1	234-13162-4
3	Screw BZ 3 x 10 C	4	206-13796-6	8	Power supply board for 94-265 VAC	1	544-36961-4
4	Appliance plug 1 with cable and ferrite core	1	664-36917-5	9	Connecting cable from power supply board to p. c. b.	1	664-36917-7
4.1	Self - tapping screw 3,9 x 6,5 C	1	206-13725-7	10	P. c. b. V 10- V 13	1	236-13891-1
5	Appliance plug 2 with cable	1	664-36862-5	11	P. c. b. V 20- V 23 (U.S.A.)	1	236-13891-2
					Motor connectionl	1	664-36862-3

**Model 203**

**Lockable lid for 4L and 8L reservoir**



4301a00

Item	Designation	Qty.	Part no.
------	-------------	------	----------

1	Lockable lid, assy	1	544-36963-1
2	Lock, assy	1	544-36961-3
2.1	Key	2	206-13796-6
2.2	Dust cap	1	664-36917-5
2.3	Spagnolet	1	233-14298-1
2.4	Tongue	1	444-24682-1
2.5	Lid	1	444-24663-1